# Che Gazette of India

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नई विल्ली, शनिवार, फरवरीं 10, 1990, (माघ 21, 1911)

No. 6] NEW DELHI, SATURDAY, FEBRUARY 10, 1990 (MAGHA 21, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके [Separate paging is given to this Part in order that it may be filed as a separate compilation]

# भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंग्ट कार्यालय द्वारा जारी को नई पंदेन्टों और डिजाइनों से सम्बन्धित अधिसूजनाएं और मोटिस [Notifications and Notices issued by the Patent Office relating to Patents and Designs]

# THE PATENT OFFICE . PATENTS AND DESIGNS

Calcutta, the 10th February 1990

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Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Putent Office.

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पंटांट कार्मालय ।

# एकस्य तथा अभिकल्प

कलकत्ता, विनांक 10 फरवरी 1990 पोटॉट कार्यालय के कार्यालयों के पत्ते एवं क्षेत्रीधिकार

पेटोट कार्यालय का प्रधान कार्यालय कलकता में अवस्थित है सथा बम्बई, दिल्ली एवं मदास में इसके शाखा कार्यालय हैं, जिनके प्रावेशिक क्षेत्राधिकार जीन के आधार पर निम्न रूप में प्रविधित हैं:---

पेट ट कार्यालय शासा, टोडी इस्टेट तीसरा तल, लोजर परोल (परिचम), बस्बद्द 400 013

गृजरात, महाराष्ट्र तथा मध्य प्रवेश राज्य क्षेत्र एवं संघ शासित क्षेत्र भोजा, दमन तथा दिव एवं बावरा और नगर हवेली ।

तार पता--"पटाफिसे" ।

पटेंट कार्यालय भाषा, एकक सं 401 से 405, तीमरा तल, नगरपालिका बाजार भवन, सरस्वती मार्ग, करोलबाग, नई दिल्ली-110 005

> हरियाणा, हिमानल प्रदेश, जम्मू तथा करमीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ तथा दिल्ली ।

सार पता---''पेट टाफिस''।

पेटेंट कार्यानय काला, 61, वालाजाह रोड, मद्रास-600 002

> आंध्र अवरेश, कर्नाटक, करेल, तमिलनाक्कुराक्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डियोरी, लक्षद्शीप, मिनिकाय तथा एमिनिदिवि व्वीप ।

सार-पता-→''६टोफिस'' ।

पेटेंट कार्यालय (प्रधान कार्यालय), निजाम पैलेस, व्वितीय बहुतलीय कार्यालय भवन, 5, 6 तथा 7 वां तल, 234/4, आकार्य जमदीक बोस रोड, कलकता-700 020

भारत का अवशेष क्षेत्र ।

तार पता---"पटिट्स" ।

पेटोट अधिनियम, 1970 या पेटोट नियम, 1972 में अपीक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रक्षेक पेटोट कार्यालय को कीयल उपयुक्त कार्यालय में ही प्राप्त किए जायों गे।

शुक्क : - शुक्कों की अदाश्मी या तो नकद की जारेंगी अथवा उपयुक्त कार्यालय में नियंत्रक को भूगतान योग्य धनादोश अथवा डाक आदोश या जहां उपयुक्त कार्यालय अवस्थित हैं, उस स्थान के अनुस्चित बैंक से नियंत्रक को भूगतान योग्य बैंक ब्राफ्ट अथवा चेक क्वारा की पा सकती हैं।

#### CORRIGENDUM

Patent No. 163652. application for Patent No. 774/Cal-84, applicant Hoesch Aktiongesellschaft, accepted on 12-8-88, advertised in the Gazette of India, Part III, Section 2 on 22-10-88, the Int. Cl. C23b \$/10 is to be read as C25d 3/22 and C25d 5/34.

Patent No. 164138, application for Patent No. 432/Cal-86 applicant The Babcock & Wilcox Company, accepted on 21-1-89, advertised in the Gazette of India, Part III, Section 2 on 21-1-89, the Int. Cl. B121 55/00, F28f 11/00 is to be read as F161 55/00, F28f 11/00.

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in crescent brackets are the dates claimed Under Section 135, of the Patents Act. 1970.

The 5th February 1990

22/Cal/90. Trutzchler GmbH & Co. Kg., A device in a carding machine, where covering elements are placed between the doffing cylinder and the taker-in below the drum.

23/Cal/90. Trutzchler GmbH & Co. Kg. A device in a carding machine, cleaning machine or such other machine for cotton fibres, where a carrier element is allocated to a roller.

24/Cal/90. Yamanoto & Co., Ltd. Rubber rollrulling apparatus.

The 8th January, 1990

25/Cal/90. E. I. Du pont De Nemours and Company. Preparation of 2-Chloroterephthaloyl chloride.

26/Cal/90. Hoechst Aktiengesellschaft. Process for the selective flotation of phosphorus minerals.

27/Cal/90. Troxler Electronic Laboratories, Inc. Method and apparatus for measuring ground moisture content of soil.

28/Cal/90. Untertage Maschinenfabrik Dudweiler GmbH. Curvable chain scraper conveyor.

The 9th January, 1990

29/Cal/90. Otto India Private Limited. Process for the removal of hydrogen sulfide from coke oven gas,

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- 30/Cal/90. Griffin Corporation. Microencapsulated agriculturally active material.
- 31/Cal/90. Igor Petrovich Kuritnyk Ussr. Thermocouple.
- 32/Cal/90. Lanxide Technology Co., Lp. Ceramic composite structures having intrinsically fitted enassement members thereon and methods of making the same.

(Divisional date 8th September, 1987).

- 33/Cal/90. Jagat Prakash Jain. Mine tub basic mineral metal & coal transporting equipment.
- APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5

#### The 27th Nevember, 1989

- 1117/Del/89. Shanta International, "Improvements in or relating to inlet valves generally and ball valves specifically, used for water supply purposes".
- 118/Del/89. Gerard Vanotti, "Strap for the quick fastening of a railroad rail and tie-equipped with such a strap".
- 1119/Del/89. Exflor Chemical Patents Inc, "Elastomeric graft copolymers and their use as compatibilizers".
- 1120/Del/89. Exxon Chemical Patents Inc., "Thermoplastic graft copolymers and their use as compatibilizers"
- 1121/Del/89. Moterola Inc., "Vibrator".

#### The 28th November, 1989

- 1122/Del/89. Sunita Singhal, "Improvements in or relating to electric toaster".
- 1:123/Del/89. Nadeem Electronics (Pvt) Ltd., "Miniature wideband RF amplifier".
- 1124/Del/89. Stein-Heurtey, "Storage furnace for steel products".
- 1125/Del/89. Societe Nationale Des Poudres Et Explasifs, "Adhesive polyurethane composition".
- 1126/Del/89. The Research Foundation for Microbial Diseases of Osaka University, "Protease, reverse transcriptase and endonuclease of retrovirus, and method for producing these enzymes".

# · The 29th November, 1989

- 1127/Del/89. The Principal Scientist & Head, "A process for the purification of ethylene glycol".
- 1128/Del/89. Vidyardhi Nanduri, "An antenna".
- 1129/Del/89. Dr. M. Venkat Rajam, "Protection of crops from pests by specific inhibition of insect polyamine biosynthesis".
- 1130/Del/89. Dr. M. Venket Rajam, "Control of mosguitoes by inhibitors of polyamine biosynthesia",

# The 30th November, 1989

- 1131/Del/89. The Secretary of state for defence in her britannic majesty's Government of the united kingdom of great britain and northern ireland, "Electrochemical generation of dinitrogen pentoxide in nitric acid".
  - (Convention date 16th December, 1988) (U.K.).
  - (Convention date 16th December, 1988) (U.K.).
- (1132/Del/89., Nauchno-Issledovatelsky Institut Radiofiziki Imeni Akademika A. A. Rasplettna, "Osted-thesia apparatus".

# The 1st December, 1989

- 1133/Del/89. The Principal Sciences & Hear. "A process for the manufacture of coloured synthetic linear polyamide resins".
- 1134/Del/89. UOP, "Selective production of aromatic hydrocarbons from C<sub>n</sub> to C<sub>n</sub> olefinic hydrocarbons".
- 1135/Del/89. Stein-Heurtey, "Improvements made to automatic heat-treatment plants".
- 1136/Del/89. Hartmann & Braun Akiengesellschaft, "Apparatus for monitoring the gas flow in a gas analyser and for correcting pressure and flow-induced interference with its measurement signal."
- 1137/Del/89. Motorola Inc., "High speed prescalor".
- 1138/Del/89. Motorola Inc., "Reactance buffered loop antenna and method for making the same".
- 1139/Del/89. Intel Gasgards Pvt. Ltd., "Improvements in and relating to liquid level sensing apparatus".
- 1140/Del/89. Motorola Inc, Heterodyne stage having precise closed-loop control of the amplitude of the injection signal thereof".

#### The 4th December, 1989

1141/Del/89. Amoco Corporation, "An improved process for production of polycarboxylic aromatic acids".

#### The 5th December, 1989

- 1142/Dcl/89, Mark Raey Watson, "Separation process".
  (Convention date 5th December, 1988) (Australia).
- 1143/Del/89. Motorola Inc, "Multiplexed synchronous/asynchronous data bus".
- 1144/Del/89. Astra-Vent AB, "An improvement in corona discharge arrangement for the removal of harmful substances generated by the corona discharge arrangement for the removal of harmful substances generated by the corona discharge".
- 1145/Del/89. Astra-Tech AB, "Positive displacement pump".
- 1146/Del/89. Sintermetallwerk Krebsoge GMBH, "Copper based sintered material, its use, and method of producing molded parts from the sintered material".

# The 6th December, 1989

- 1147/Del/89. Rene Bernard Guillot, "Device for the extraction of fat and oil from dry oil seeds".
  - [Divisional date 20th March, 1987].
- 1148/Del/89. Samsung Electron Devices Co. Ltd., "Heater coil coiling machine".
- 1149/Del/89. Samsung Electron Devices Co. Ltd., "Frame supporting spring for color cathode ray tube".
- 1150/Del/89. Samsung Electron Devices Co. Ltd., "Stem protecting based for cathoder ray tube".
- 1151/Del/89. Samsung Electron Devices Co. Ltd., "Manufacturing method for electrode of electron gun of cathode ray tube".
- 1152/Del/89. Samsung Electron Devices Co. Ltd., "Manufacturing method for electrode of electron gun of cathode ray tube".

- 1153/Del/89. Samsung Electron Devices Co. Ltd., "Cleaning device for sealing portion of panel of color cathode ray tube".
- 9. Samsung Electron Devices Co. Ltd., "Graphite suspension spreading device for use in formation of black matrices of color picture
- 1155/Del/89. Samsung Electron Devices Co. Ltd., "Salvaging method for phosphor layer of panel of color picture tube".
- 1156/Del/89. Reliance Electric Co., "An improved thrust bearing".

[Divisional date 10th February, 1987].

1157/Del/89. Exxon Chemical Patents, Inc, "Minimising catalyst loss in the production of alcohols". (Convention date 8th December, 1988) (U.K.).

# The 7th December, 1989

1158/Del/89. Societe Europeenne De Propulsion, "A compact structural assembly for feeding propeliants at high pressure to a rocket engine".

#### The 8th December, 1989

- 1159/Del/89. Landis & Gyr Betriebs AB, "Phase detectors for mark/space modulated signals".
- 1160/Del/89. Polypure, Inc, "Copolymers of 3-methacry-loyloxy-2-hydroypropyl trimethylammonium chloride monomer and vinyl monomer".
- 1161/Del/89. Hunter Douglas Industries B.V., "Venetian blind tiltroll support".

(Convention date 15th December, 1988) (U.K.).

- \*1162/Del/89. Bertin & Cie., "A laser microbeam machine for acting on thin film objects, in particular for chemically etching or depositing substance in the presence of a reactive gas".
- 1163/Del/89. C. R. BARD, Inc., "Integrated soft shell reservoir".
- 1164/Del/89. C.R. BARD, Inc., "Rapidly exchangeable coronary catheter".
- 1165/Del/89. C. R. BARD, Inc., "Steerable guidewire having electrodes for measuring vessel cross section and flow".
- 1166/Del/89. International Mobile Machines Corporation, "Combination spatial diversity system"
- 1167/Del/89. C. R. BARD, INC., "Fast purge baloon dilatation catheter".
- 1168/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of 1-(1, 5-dimethyl-5-(substituted)-hexyl) 4-methyl benzenes from zingberene".
- 1169/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of a novel porous crystalline material".
- 1170/Del/89. Council of Scientific & Industrial Research,
  "A process for the production of a novel flux
  useful for the production of zinc base alloys
  and a process for the production of such alloys
  using the flux".
- 1171/Del/89. Council of Scientific & Industrial Research, "An improved process for the production of alloys".
- 1172/Del/89. Council of Scientific & Industrial Research, "A process for making low tungsten high speed tool steels".

1173/Del/89. Council of Scientific & Industrial Research, "An improved process for making resin bonded aluminagraphite refractories".

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- 1174/Del/89. Council of Scientific & Industrial Research, "Improved process for ultrafine grinding of non-oxide and other ceramic materials".
- 1175/Del/89. Council of Scientific & Industrial Research,
  "An equipment for indirect cooling or heating coupled with mixing of granular crystalline or powdered solids".

#### The 12th December, 1989

- 1176/Del/89. The principal scientist & Head, Sir Padampat Research Centre, "A process for the preparation of polyester having flame retardant properties".
- 1177/Del/89. The Lubrizol Corporation, "Fuel stabilizer composition".
- 1178/Del/89. Paul Wurth S.A., "Automatic lance-changing device"
- 1179/Del/89. Miner Enterprises, Inc, "Side bearing unit for railroad car".

#### The 13th December, 1989

1180/Del/89. Council of Scientific & Industrial Research, "An improved process for manufacture of precipitated silica at ambient temperature, using hydrocoloric acid".

#### The 13th December, 1989

- 1181/Del/89. Council of Scientific & Industrial Research, "A household filter for the removal of microorganisms and other pollutants from drinking water sources"
- 1182/Del/89. Council of Scientific & Industrial Research,
  "A control system for control of emission through chimneys/ovens by application of water/steam".
- 1183/Del/89. Council of Scientific & Industrial Research,
  "An improed process for the production of rose
- 1184/Del/89. Pfizer Inc., "Bis-Aza-bicyclic anxiolytic agents".
- 1185/Del/89. Interprofil GFK-Fenster & Bausysteme Gesell-schaft m.b.h., "A process for the manufacture of a one piece window frame profile". [Divisional date 18th Jaunary, 1987].
- 1186/Del/89. Robert L. Zeer, "Deflection apparatus". (Conention date 24th July, 1989 (Canada).

#### The 14th December, 1989

- 1187/Del/89. Jan Ballyns, "Pressure sensor system".
- 1188/Del/89. Norsk Hydro A.S., "Container for lifting, transportation and storage of bulk material".
- 1189/Del/89. Norsk Hydro A.S., "Flexible intermediate bulk container with means for partly or complete discharge".
- 1190/Del/89. Norsk Hydro A.S., "Means for a flexible intermediate bulk container".

# The 15th December, 1989

- 1191/Del/89. Ganga Ram Bairwa Alias Ganga Prasad Lakwal, "B. S. V.I (firat) (device stopper valve" Water saving invention scheme".
- 1192/Del/89. Shirish Shantilal Pandya, "An air screen cleaner machine".
- 1193/Del/89. Shirish Shantilal Pandya, "An air screen cleaner machine".

- 1194/Del/89. Borden Inc, "Phenolic resins". (Convention date 22nd December, (U.K.). 1988)
- 1195/Del/89. Borden Inc., "Phenolic resins".
  (Convention date 22nd December, 1988 & 11th August, 1989) (U.K).
- 1196/Del/89. Battery Technologies Inc., "Rechargeable al-kaline manganese cells with zinc anodes".
- 1197/Del/89. Battery Technologies Inc., "A method and a taper charger for resistance free charging of a rechargeable battery".
- 39. Battery Technologies Inc., "Rechargeable alkaline manganese dioxide-zinc cell with low internal resistance and improved cycle life". 1198/Del/89. Battery
- 1199/Del/89. Battery Technologies Inc., "Rechargeable alkaline manganese dioxide-zinc cell having improved accumulative capacity". (Convention date 31st August, 1989) (Canada).
- APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 18th December, 1989

- 926/Mas/89. CHIN-PEI CHEN. A method for manufacturing a seat post of a bicycle.
- 927/Mas/89. Ming Fu Hsisu and Wen Jen Hsieh. Button.
- 928/Mas/89. Takeda Chemical Industries, Ltd. Guanidine Derivatives, their production and insecti-
- 929/Mas/89. AB Akerlund & Rausing. A method and a device for making a coated hollow profile. (Divisional to Patent Application No. 188/
- 930/Mas/89. Bio Flo Ltd. Fluid flow control apparatus.
  The 19th December, 1989
- 931/Mas/89. Maschinenfabrik Rieter AG. Cleaning machine for textile fibres in a current of air. Cleaning
- 932/Mas/89. Maschinenfabrik Rieter AG. machine for textile fibres.
- Magneti Marelli Electrical Limited. Starter 933/Mas/89. Motors.

(December 23, 1988; United Kingdom).

#### The 20th December, 1989

- 934/Mas/89. Shell Internationale Research Maatschappij B. V. Preparation of modified star polymers and the use of such polymers as luboil additives. (December 22, 1988; Great Britain).
- 935/Mas/89. Rhone-Poulenc Films. Composite polyester films useful as substrates for magnetic recording materials.

# The 22nd December, 1989

- 936/Mas/89. C. Irulappan. Production of electricity from running water in a plane surface.
- 937/Mas/89. Ashok Mahadevan. Control switch.
- 938/Mas/89. Astra Research Centre India. New methods for diagnosis of tuberculosis.
- 9. Wonderlite Glowsigns. A novel information sign/chart for use on table tops/counters/verti-939/Mas/89. Wonderlite Glowsigns. cal surfaces.
- 940/Mas/89. Merlin Gerin. Gas-blast electrical circuit breaker.

- 941/Mas/89. Huls Aktiengesellschaft. Process for the specific purity as well as its working up to pure DMT and/or medium pure or pure terephthalic acid.
- 942/Mas/89. Owens-Illinois Closure Inc. Closure assembly and method of making same using expoxidized natural oil in a low fusing curable plastisol. (May 17, 1989; Canada).
- 943/Mas/89. Union Carbide Chemicals and plastics Company Inc. and Shell Oil Company. Process for reducing polymer build-up in polymerization equipment during polymerization of alpha-ole-
- 944/Mas/89. The English Electric Company of India Limited. Motor Protection relay.

# ALTERATION OF NAME

Claim Under Sec. 20(1)

In pursuance of leave granted under Sec. 20(1) of the Patents Act, 1970, Application for Patent No. 165914 (511/Del/86) is allowed to proceed in the name of POTASH CORPORATION, of SASKATCHEWAN.

#### **ALTERATION**

165915 (5 <b>53/Del/</b> 86)	Anti-dated 22nd November, 1983.
165917 (902/Del/86)	Anti-dated 30th January, 1984.
165925 (31/Cal/88)	Anti-dated 27th June, 1984.
165926 (50/Cal/88)	Anti-dated 27th June, 1984.
165928 (750/Cul/88)	Anti-dated 1st April 1986.
165930 (1047/Cal/88)	Anti-dated 8th October, 1985.
165932 (185/Cal/86)	Anti-dated 16th November, 1982.

# OPPOSITION PROCEEDINGS

(1)

The Opposition entered by IDL Chemicals Limited to the grant of a Patent on Application No. 154799 made by Ireco Chemicals as notified in the Gazette of India, Part III, Section 2 dated 25th May, 1985 is allowed and the application for the Patent has been refused.

The opposition entered by Orissa Cement Limited the grant of a Patent on Application No. 153287 made Blue Circle Industries Ltd. as notified in the Gazette India, Part III, Section 2 dated 12th January, 198 partly successful and ordered that the Patent shall be ed subject to the amendments of the Complete Spetion as furnished in the Schedule of Amendments. sealcifica-

# PATENTS SEALED

162179	164696	164698	164716	164717	164741	164742
164746	164747	164782	164783	164784	16478	5 164787
164788	164793	164794	164796	164799		0 164801
		164805			40.40	8 164832
164834	164842	164843	164844	164845	4.44	16 164858
164875	164876	164878.		21.4		0 104050

CAL = 11

DEL = 12

MAS = 11

BOM = 4

#### AMENDMENT

# Specification No. 164509

In pursuance of leave granted on 26th December, 1989 under Section 78 of the Patents Act, 1970 the Specification has been amended as follows:—

#### DELETE Claim 6.

# RENEWAL FEES PAID

		WEITE W		0 1111		
143522	145313	145632	145642	145670	165987	146033
146196	146408	147192	147427	147429	147697	147698
147699	147700	148182	148261	148394	148540	149024
149220	149396	149424 ·	150157	150298	150330	150613
150648	150965	151067	151181	151232	151445	151718
152102	152177	152283	152365	152748	153092	153213
153345	153663	153732	153736	153851	153895	154036
154099	154138	154196	154807	154949	155117	155578
155625	155733	155830	155943	155956	155966	156042
156097	156203	156305	156519	156701	157019	157338
157573	157719	158612	158732	158744	158947	158957
159385	159871	159913	159981	160969	160986	161073
161339	162121	162154	162193	162481	162619	162861
163477	163580	163651	163883	164687	164688	164697
164738					٠.	7×1 🎉

Name index of applications for Patents for the month of March, 1989 (Nos. 172/Cal/89 to 248/Cal/89, 51/Bom/89 to 83/Bom/89, 171/Mas/89 to 256/Mas/89 and 185/Del/89 to 396/Del/89)

Name	
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# Applin. No.

#### A

Acumeter Laboratories, Inc.—221/Del/89.

Aerospatiale Societe Nationale Industrielle.-235/Del/89.

Ahlstrom Corporation.-216/Mas/89.

Alathom.—259/Del/89.

Ambitious Gold Nib Manufacturing Co. Pvt. Ltd.—239/ Del/89.

Ardent Computer Corporation.—190/Del/89, 191/Del/89.

Arora, D. S.--253/Del/89.

Ashok Manufacturing Co: (P) Ltd.--300/Del/89.

Australian National University, The.-233/Cal/89.

# В

BASF Aktiengevellschaft.—188/Mas/89.

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Babcock & Wilcox Co. The.—205/Cal/89, 215/Cal/89.

Bais, J. S .- 73/Bom/89.

Balcke-Duit Aktiengesellschaft.—188/Del/89.

Bali, R. S .-- 54/Bom/89.

Ballivet. M .- 228/Cal/89.

Balykin, P. S .- 242/Del/89.

Bauer, H. A .- 211/Del/89.

Bans, H. G.—189/Mas/89.

Beloit Corporation.-250/Cal/89.

Bent Back,-186/Del/89, 187/Del/89.

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Bharat Heavy Electricals 1.td.—271/Del/89.

Bioresearch, Inc.—188/Cal/89.

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British Telecommunications plc.-227/Mas/89.

#### C

C. R. Bard, Inc. -296/Del/89.

Carow International, Inc.—176/Cal/89.

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Dana Corporation.—208/Mas/89, 253/Mas/89.

Das, D. K.-232/Cal/89.

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Deutsche Forschungs Und Versuchsanstalt for Luft-Und Raumfahrt E. V.—240/Cal/89.

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- - ----Name Appln. No. Name Appln. No. I-Contd. E-Contd. Indian Petrochemicals Corporation Ltd.-63/Bom/89. Etablissement Gersan.—220/Mas/89, 221/Mas/89. Exxon Chemical Patents, Inc.—228/Del/89, 229/Del/89, 230/Del/89, 248/Del/89, 258/Del/89. Institute belka akademii nauk sssr.-173/Cal/89. Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR .- 210/Del/89. Exxon Research & Engineering Co.--286/Del/89. Institut Français Du Petrole.—175/Mas/89, 199/Mas/89 225/Mas/89. Institut Fur Angewandts Bio-Technologie Der Tropen An FBI Brands Ltd.-212/Del/89. Der George-August-Universitat.—195/Cal/89. Falk Corporation, The .-- 193/Cal/89, 194/Cal/89. Institut Gidrodinamiki Imeni M. A. Lavrientieva Sibirskogo Otdelenia Akademii Nauk SSSR.—291/Del/89, 293/Del/ Farben Aktiengesellschaft.—207/Del/89. 89, 303/Del/89. Fiziko Tekhnichesky Institut Akademii Nauk Belorusskoi SSR.—257/Del/89. Institut Kalaliza Sibirskogo Otdelenia Adademii Nauk Fotoking Passbildsysteme.—185/Max/89. SSR.—302/Del/89. Future Power Inc.-220/Del/89. Institut Morfologii Cheloveka Akademii Meditsinskikh Nauk SSSR.-245/Cal/89. Institut Strukturnoi Makrokinetiki Akademii Nauk SSSR.— Gec Plessey Telecommunications Ltd.—214/Mas/89, 232/ 187/Cal/89. Mas/89, 280/Del/89. International Business Machines Corporation.-277/Del/89. Galatron S.r.l. 'Breech-block'.—242/Cal/89. International Thermal Packaging, Inc.-200/Mas/89. Gandhi, M. Dr.-231/Del/89. Ion Exchange (India) Ltd.—72/Bom/89. Garware-Wall R&D Division -56/Bom/89. Italimpianti Societe Italiana Impianti Pa.—209/Mas/89. General Electric Co.-199/Cal/89, 211/Cal/89. í Genesis Chempest Private Ltd.-66/Bom/89. Ghorpade, N -210/Mas/89. Jain, M. K.-198/Cal/89. Jain, S. S.—203/Del/89. Ohorpade, V.-210/Mas/89. Jayaraman, T.R.—195/Del/89. Ghose, P. K.-232/Cal/89, 239/Cal/89, 244/Cal/89, Jeumont-Schneider.—177/Mas/89. Ghosh, P. P.—244/Cal/89. Jindal D. P.—194/Del/89, Godbole, M. S.—60/Del/89, 60/Bom/89, 69/Bom/89. Goyal, R. C.-205/Del/89. Johnson & Johnson GmbH.-197/Del/89, 198/Del/89. Groznensky Filial Okhtenskogo Nanehno etc.-302/Del/89. Jushunev, M. N.—289/Del/89. Guest, J. D.-279/Del/89. Guha, J.-239/Cal/89. Gupta, A. K .- 204/Del/89. KSB Aktiengesellschaft.—202/Cal/89. Gupte, M. M.—59/Bom/89. Kaali, S.-221/Cal/89. Gurievsky Khimicheskg Zavod Imeni.-302/Del/89. Kafley, O. C.—186/Cal/89, 216/Cal/89, Kaithottukonam, K. S. S. U.—248/Mas/89. Hagglunds Denison Corporation.—228/Mas/89. Kampli, S. I. Dr.-217/Man/89. Hanley, R. P.—199/Del/89. Kauffman, S. A.—228/Cal/89, Heukel Kommanditgesellschaft auf Aktien,-206/Mas/89. Keravision, Inc.-294/Del/89. Hindustan Lever Ltd.—64/Bom/89, 70/Bom/89, 74/Bom/ Khannan, R.-190/Mas/89. 89, 75/Bom/89, 81/Bom/89. Khatri, A. A. Dr.—60/Bom/89, 68/Bom/89, 69/Bom/89, Hoechst Aktiengesellschaft.-204/Cal/89. Khodosevich, V. M.—276/Del/89, 290/Del/89. Hoechst India Ltd -- 67 Bom/89. Kievsky Politekhnichesky Institut Imeni 50-letia ievsky romeknnichesky Institut Imeni 50-letia velikoi oktyabrskol sotsialisticheskoi revolutsii.—219/Cal/89, 255/Del/89 Hoesch maschinenfabrik deutschland ag.-285/Cal/89, Del/89. Hougen, E. D.--227/Del/69. Kinariwala, S. N.—222/Del/89, 234/Del/89. Hughes Aircraft Co.-249/Del/89. Kinglor Ltd.-191/Cal/89. Hunter Douglas International NV. -281/Del/89. Kivskoe Proizvodstvennoe objedinenie "VEDA".—210/Del/ Koppel Aktiengesellschaft.—226/Cal/89. Imperial Chemical Industries PLC.—218/Del/89, 219 /

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Veb Stahl-Und Walzwerk "Wilhelm Florin.—213/Cal/89.

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Venugopal, N. P. K. Dr.—183/Mas/89.

ರು ಕರ್ರಾಮಗಳಿಗೆ ಮರ್ಮ ಕರ್ನಾ ಗಡೆಯು ಗಡೆಯು ಸಮುಸ್ತರ ಕರ್ನಾ ಪರ್ವಹಿತ್ತು. ಕರ್ನಾ ಶ್ರಗ್ಗೆ ಸಂಪುರ<del>ಗಳಿಸುತ್ತದೆ</del> ಬಗುಗಳಿಸಿ ಕರ್ನ

Vermont American Corporation.-191/Mas/89.

Voest-alpine donawitz gesellschaft m.b.h.-220/Cal/89.

Vsesojuzny Nauchno-Issledovatelsky Proektno-Honstru-Ktorsky I Tekhnologichesky Institut Vzryvozaschischis-Chennogo I Rudnichnogo Elektrooborudovania (Vniive).—241/Del/89.

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Weirton Steel Corporation .-- 198/Mas/89.

Westinghouse Brake & Signal Holdings Ltd.—247/Del/89.

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Z

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of Patents on any ff the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8. Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/(postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multipling the same by four to get the charges as the copying charges per page are Rs. 4/-.

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# स्थीकृत सम्पूर्ण विनिवर्षेश

एतद्द्यारा यह सूचना वी जाती है कि सम्बद्ध आवेदरों में सं किसी पर एटेंट अनुदान का जिलांध करने के इच्छाक कोई व्यक्ति, इसके निर्गम की विधि से 4 महीने ता जिसम एसी अवधि को उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के सहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी नियंत्रक, एकस्य को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्यः, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइन किए जाने चाहिएं।

''प्रत्येक विनिवांश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तराष्ट्रीय वर्गीकरण के अनुरूप हैं।''

भीचे सूचीगत विनिद्देशों की सीमित संस्थक में मूजिल प्रतियां, भारत सरकार बूक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय होतु यथा समय उपलब्ध होगी। प्रत्येक विनिद्देश का मूल्य 2/- रा. है। (यदि भारत के बाहर भेचे जाएं तो अतिरिक्त डाक इन्हें)। मुद्रित विनिद्देश की आपूर्ति होतु मांग-पत्र के साथ निम्निलिखित सूची में यथा प्रदक्षित विनिद्देशों की संस्था संलग्न रहनी चाहिए।

स्यांकन (चित्र बारोसों) की फोटो प्रतियों यदि कोई हों; के साथ विभिन्नों की टकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकला, ब्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय से पत्र व्यवहार द्वारा सृनिविचत करने के उपरांत उसकी बदायणी पर की जा सकती हैं। विनिर्वोध को पृष्ठ संख्या के ताथ प्रत्येक स्वीकृत विभिन्नों के सामने नीचे विणित चित्र आपरों का जोड़कर उसे 4 से ग्णा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. ही) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

**CLASS: 127-G** 

165901

Int. Cl.: F 16 h 3/00.

RING GEAR/PINION GEAR DRIVE GEAR SETS.

Applicant: EATON CORPORATION, OF EATON CENTRE, CLEVELAND, OHIO 44114/U.S.A. UNITED STATES OF AMERICA.

Inventors: (1) CRAIG BRAIN ANDERSON, (2) GEORGE WINFIELD VOLLMER.

Application No. 503/Cal/86 filed July 08, 1986.

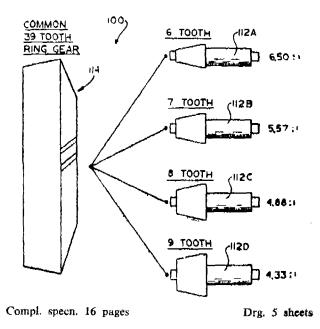
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

#### 10 Claims

Ring gear, pinion gear drive gear-sets for heavy duty axles comprising:

A common ting gear (114) having number of teeth and a given pitch diameter and a flist, second and third (112A, 112B and 112C) pinion gear having A, B and C, respectively, number of teeth each interchangeably engagable with said ting pear to define X/A, X/B and X/C ratio, respectively, genessets, the gear tooth geometry of each of said pinion gear selected to provide substantially equal drive pressure angles for each of said gear sets and substantially equal coast pressure angles for each of said gear sets wherein:

A, B, C and X are positive integers, and A < B < C < X.



CLASS: 136-C, E

165902

Int. Cl.: B 29 C 35/00, 39/00.

METHOD AND APPARATUS FOR FORMING EXTRUDED PRODUCTS.

Applicant: COLORTECH INC., OF 8011 DIXXIE ROAD, BRAMPTON, ONTARIO, CANADA L6T 3VI.

Inventors: (1) MARTIN JOHN WALSH. (2) ENFRDO GABRIEL MAURY.

Application No. 510/Cal/86 filed July 09, 1986.

Convention dated 09th July, 1985 (No. 486,540) (Canada).

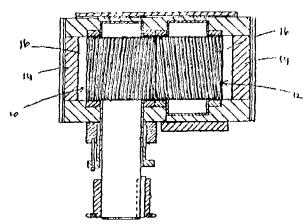
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

# 15 Claims

A method of forming extruded products such as herein described, comprising:

- a first step of simultaneously mixing and heating extruable material to be extruded, to at least the melting temperature thereof at which point said material is in the form of a relatively non-flowable, self-sustaining mass in a partially molten state;
- s.id mass having a relatively low density and having entrapped air therein to help prevent said mass from being flowable;
- a second step of feeding said relatively low density;

non-flowable self-sustaining mass in a partially molten state between a fixed rigid surface and a moving rigid surface of a gear pump to remove said entrapped air from said mass and to density, compress and convert said mass to a flowable form, and extrauding a densified and compressed flowable product.



Compl. speen. 44 pages

Drg. 1 sheet

CLASS: 94-B

165903

Int. C1.: B 02 C 2/00.

MECHANICAL SPRING JOURNAL ASSEMBLY FOR A BOWL MILL.

Applicant COMBUSTION ENGINEERING, INC. OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTION 06095, UNITED STATES OF AMERICA.

Inventors: (1) ROBERT STEPHEN PRAIRIF.

Application No. 528 Cal 86 filed July 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

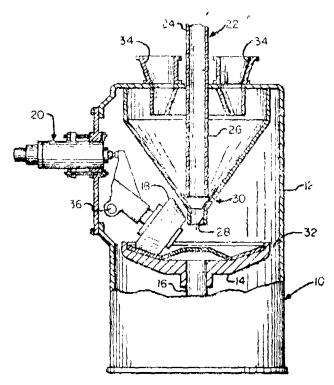
A mechanical spring journal assembly for a bowl mill comprising:

- (a) Preload stud means including a journal pressure spring preload stud having an anlarged portion formed at one end thereof, said enlarged portion of said journal pressure spring preload stud having a spring stud insert mounted thereon, said spring stud insert being operative to transmit there through the spring forces generated by the mechanical spring journal assembly;
- (b) Spring housing means forming a self contained subassembly unit for the operating components of the mechanical spring journal assembly, said spring housing means including a journal pressure spring housing, a stud bearing housing and a spring guide, said stud bearing housing being secured to said journal pressure spring at one end thereof, said stud bearing housing heing operative as an enclosure for some of said enlarged portions of said journal pressure spring preload stud, said spring guide being secured to said journal pressure spring housing at the other end thereof;
- (c) Spring stud bearing means including a spring stud bearing assembly and retaining ring, said spring stud bearing assembly being mounted in encircling relation on said enlarged portion of said journal pressure spring preload stud, said retaining ring encircling said enlarged portion of said journal pressure spring preload stud and said stud bearing housing;

(d) A spring stud adapter supported in encircling relation on said journal pressure spring preload stud so as to be positioned in abutting engaging.

With said enlarged portion of said journal pressure spring preload stud:

(e) Pressure spring means including a journal pressure spring supported within said journal pressure housing in encircling relation to said journal pressure pring stud adapter such that said spring stud spring stud adapter such that said spring stud adapter is operative as one seat for said journal pressure spring, said journal pressure spring, said journal pressure spring having the outer end thereof in engagement with said spring guide such that said spring guide is operative as the other seat for said journal pressure spring, said Journal pressure spring having the outer end thereof in engagement with said spring guide such said spring guide is operative as the other seat for said journal pressure spring being operative as the source of the spring bearing forces generated by the mechanical spring journal assembly.



Compl. speen. 27 pages.

Drgs. 2 sheets

CLASS: NIL

165904

Int. Cl. : F 02 B 37/00 39/00

"TURBOCHARGERS".

Applicant: ROTO-MASTER, INC. OF 7101 FAIR AVENUE NO. HOLLYWOOD, CA, USA 90650.

Inventors: (1) ANDREW ERIC JOHNSTON, (2) JON ANDREW MEYAR, (3) RONALD (NMI) MILLER,

Application No. 588/Cal/86 filed August 01, 1986.

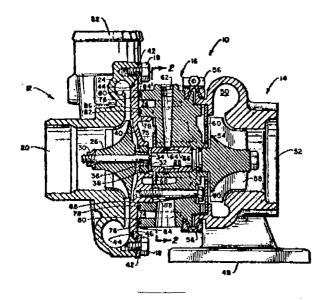
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

#### A turbocharger comprising:

- a compressor section provided with a fluid medium inlet, a fluid medium outlet, an annular discharge passage communication there between and a compressor impeller mounted on one end of a bearing;
- A turbine section provided with fluid medium inlet, a fluid medium outlet, and annular inlet passage communicating there between and a turbine impeller mounted on the opposite end of said shaft; and
- A bearing housing, intermediate said compressor section and said turbine section, provided with a lubricating oil inlet passage, means for introducing oil around said shaft and—means for discharging said oil, said turbine section clamped to one side of said bearing and said compressor section and botween said bearing housing and said turbine section for minimizing leakage of oil therebetween.

Characterized in that said bearing housing is provided with at least one channel open on at least one side of said compressor section and/or said turbine section and said corresponding section is provided with at least one side between said section and said bearing housing to seal said at least one channel.



Compl. specn. 12 pages.

Drgs. 4 sheets

CLASS: 172 B 6, 9 D,

165905

Int. Cl. : D 01 G 1/00, 1/02, 1/04, 1/06 D 02 G 1/00.

"APPARATUS AND METHOD FOR CUTTING TOWS INTO PREDETERMINED LENGTHS".

Applicant: E. I. DU PONT DE NEMOURS AND COMPANY OF WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors: (1) DONALD FLOYD MILLER.

Application No. 614/Cal/86 filed August 11, 1986.

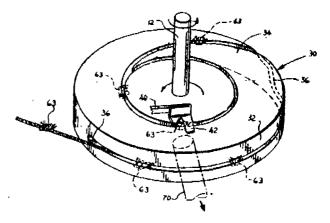
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

In an apparatus for cutting tow into predetermined lengths including a frame, a driven cutting reel rotatable in said frame for receiving successive wrappings of two moving in a path toward the reel to be cut and having means for removing knots formed by ticing the ends of two single tows together characterized in that said means comprising:

- a housing attached to said frame: :
- said housing surrounding said reel, and having a continuous upstanding side wall and a top attached to the wall;
- said side wall and said top having a cam slot formed therein;
- said slot being sized to permit passage of a single tow, but to prevent passage of a knot;
- said cam slot having one end in alignment with said path and the other end of the slot terminating on the top of the housing: and

means for removing the knot when the endsare cut by the reel.



Compl. speen. 11 pages.

Drgs. 4 sheets

CLASS: N.I.

165906

Int. Cl.: H 01 H 19/28.

#### "AN ELECTRIC SWITCH".

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF WITTILSBAC ERPLATZ 2, D-8000. MUNCHEN 2, WEST GERMANY.

Inventros: (1) MANFRED KRONES.

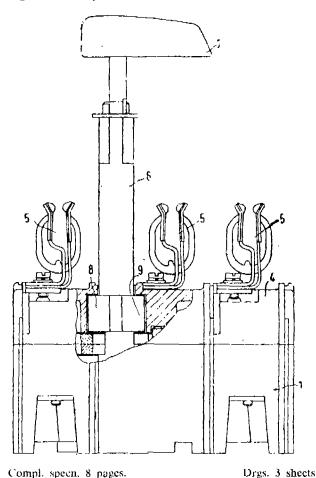
Application No. 659/Cal/86 filed Sept. 01, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

An electric switch including a switch housing containing switching elements and a rotary control shaft extending out of a first side being the top of the housing near a second side being the front of the housing and turnable from outside the housing to effect a switching operation inside the housing characterised in that an opening is provided in the said first side of the housing near the said second side of the housing, an opening also provided in the said second side of the housing near the said first side of the housing, said openings Communicating with one another within the housing but being separated from one another by a bridying piece on the outside of the housing, and said rotary control shaft formed with a recess which is a groove extending parallel to the longitudinal axis of the shaft, said recess being formed

in a portion of the shaft which is thicker than the parts of the shaft on both sides thereof, such that in a particular rotational position of the said rotary control shaft a padlock can be used to prevent rotation of the shaft wherein the shackle of the padlock passes into the housing through one of the openings, then through said recess and then out of the housing through the other openings.



confin. apeen, o pages

CLASS: NIL 165907

Int. Cl.: H 03 K 17/292.

"STATIC VAR GENERATORS".

Applicant: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: (1) LASZIO GYUGYI, (2) ARK GORDON GERNHARUT.

Application No. 681/Cal/86 filed Sept. 12, 1986.

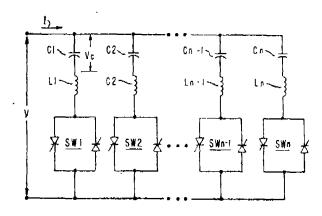
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A static VAR generators, to provide reactive power compensaion to an ac network including a thyristor-switched capacitor bank having a series combination of a capacitor, a bidirectional thyristor switch having gate drive, and a current limiting reactance with an applied voltage appearing across the combination with a current being conducted therethrough, a damping circuit for switching the thyristor switch to achieve damping of oscillatory transients generated by the switching of the capacitor in the network, comprising first measuring means for measuring the magnitude and polarity of the voltage Vc appearing across the capacitor and producing a signal representative of the voltage Vc, second measuring means for measuring magnitude and polarity of the

applied voltage V and producing a signal representative of the applied voltage V, difference means connected to the first and second measuring means for determining the magnitude and polarity of a voltage difference,  $\triangle V$  defined by the formula  $\triangle V = (V--Vc)$  and producing a signal representative of the voltage difference, v, quadrant sensing means connected to the second measuring means for determining the occurrence of the prepeak quadrant and the postpeak quadiant of the applied voltage V and producing a signal representative of the occurrence of prepeak and postpeak quadrants of the applied voltage V, gate drive control means for using the signals produced by the first and second measoring means, the difference means and the quadrant sensing means to remove and apply the gate drive to the thyristor switch on the occurrence of one of the following conditions, the gate drive control means removing the gate drive of the thyristor switch during the prepeak quadrant of the applied voltage V when the polarity of V is opposite to the polarity of the applied voltage V, during the postpeak quadrant of the applied voltage V when the polarity of  $\triangle v$  is the same es that of the applied voltage V, and the gate drive control means applying the gate drive to the thyristor switch during the prepeak quadrant of the applied voltage V when the polarity of  $\wedge$  v is the same as the polarity of the applied voltage V during the postpeak quadrant of the applied voltage V when the polarity of  $\triangle$  v is opposite to that of the applied voltage V, and at the occurrence of the voltage peak of the applied voltage V.

April (Application) of the application of the appli



Compl. speen. 21 pagse.

Drgs. 13 sheets

CLASS : 144 E..

165908

Int. Cl. : C 08 J 3/20.

"A PROCESS FOR THE PREPARATION OF FLAKY COLOURED PIGMENTS".

Applicant: MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, D-6100 DARMSTADT, FRANKFURTER STR 250, FEDERAL REPUBLIC OF GERMANY.

Inventors: (1) MR. TAMIO NOGUCHI, (2) MR. TAKAJI WATANABE.

Application No. 685/Cal/1986 filed Scpt. 16, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

Process for the production of flaky coloured pigments which comprises suspending a flaky substrate such as herein described in a dispersion or a solution of a finely divided conventional colour pigment, said substrate being particles with a width and length of between 1-30 um and having a thickness of between 0.1---1 um, mixing the resulting suspension with a solution of an organic high molecular compound such as hereinbefore described having a molecular weight ranging from 500 to 1,60,000 thereby causing the colour pigment and the organic high molecular compound to precipitate onto the flaky substrate and thereafter separating the precipitated solid from the suspension and drying the same, at a temperature not exceeding 200°C, the flaky coloured pigment thus produced containing 0.5 to 30% by weight of the colour pirment and 0.1 to 10% by weight of the binder.

Compl. specn. 18 page

Drg. Nil

CLASS:

165909

Int. Cl. : G 0/F 1/00. G 0/F 3/00.

"A SENSOR ARRANGEMENT FOR A VORTEX SHEDDING FLOWMETER".

Applicant: THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U. S. A.

Inventors: (1) JAMES KENNETH KNUDSEN, (2) JANE ELLEN SMITH, (3) VICTOR JOHN BUDAN, (4) DAVID JOSEPH WROBLEWSKI, (5) EUGENE SKURATOVSKY.

Application No. 687/Cal/86 filed on Scpt. 17, 1986.

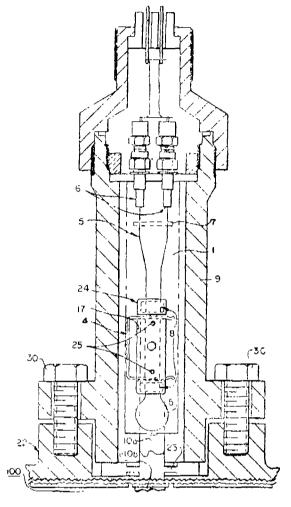
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

# 11 Claims

A sensor arrangement for a vortex shedding flowmeter taying a flowmeter housing which is exposed to a flowing luid in a fluid space on one side of the flowmeter housing comprising:

- a sensor housing refining a sensor space;
- a sensor beam connected for movement to said sensor housing and having a first portion extending into said sensor space and a second portion extending through the flowmeter housing into the fluid space;
- Pressure boundary means connected to said beam for isolating said sensor space from the fluid space:
- a mounting bracket detachably connected to said sensor housing; and
- a sensor element connected to said mounting bracket, said sensor element being disposed in said sensor space such that, in operation, it is capable of being engaged with said first portion of said beam for sensing movement of said beam with passage of vortices past said second portion of said beam in the fluid space,

said sensor element being removable with said mounting bracket from said housing.



Compl. specn, 12 pages.

Drgs. 2 sheets

Int. Cl. : C 23 C 16/00.

165910

"PROCESS FOR PRODUCING COATED MOLDED BODIES".

Applicant: FRIED KRUPP GESELLSCHAFT MIT DESCHARANKTER HAFTUNG, ALTENDORFER STRABE 103, D-4300 ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors: (1) HENK VAN DEN BERG, (2) UDO KONIG, (3) NORBERT REITER.

Application No. 901/Cal/86 filed on Dec. 10, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

# 4 Claims

A process for producing a coated molded body according to the CVD process, in which at least one layer of hard material, consisting of at least one carbid, nietride or carbonitride of at least one of the elements titanium, zironium, hafnium. vanadrum, niobium and tantanium is deposited on a metallic substrate from a reactive gas phase, the gas phase containing at least one halide of at least one of the elements titanium, zirconium, hafnium, niobium, and tantalum, and

at least one compound which is a nitrogen-containing compound, such as hereinbefore described and a carbon-containing compound, such as hereinbefore described the gas phase being free of oxygen and oxygen-containing compounds, comprising adding to the gas phase at least one compound selected from aluminium trichloride, aluminium tribromide or magnesium chloride in molor ratio, of from 0.1:1 to 5:1, with respect to the halide of titanium, zirconium, hafnium niobium, and tantalum.

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Compl. speen. 11 pages.

Drgs. 2 sheets

Ind. CLASS:  $32 F_1 32 F_2$  (a).

165911

Int. Cl. : C 07 C 31/135.

"A PROCESS FOR THE PREPARATION OF 1-ARY-LOXY/——NAPHTHYLOXY - 3 - (SUBSTITUTED-2 -BENZOYLA NILINO) - 2 - PROPANOLS".

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s): ANDHE VENKAT NARENDER REDDY, AHMED KAMAI., ADARI BHASKAR RAO, PRAKASH VAMANRAO DEWAN & PRALHAD BALWANTRAO SATTUR.

Application for Patent No. 369/Del/86 filed on 25th April, 1986.

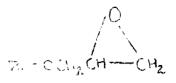
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

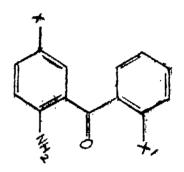
A process for preparation of 1-aryloxy/1 -  $\infty$  - napthyloxy-3-(substituted - 2 - benzonylanilino) - 2 - propanols of general formula III

of the drawing accompanying this specification wherein Z represents a group of the formula la or Ib & R represents H, halogens, such as chloro bromo & iodo, alkyl or alkoxy consisting of 1 to 3 carbon atoms, acetyl, benzoyl, alkoxy, carbonyl consisting of 1 to 4 carbon atoms and aryloxy carbonyl groups, R¹ represents hydrogen, halogen such as chloro, bromo and iodo, alkyl, consisting 1 to 3 carbon atoms, alkohy, alkyl consisting 1—4 carbon atoms and acetamido groups and R² represents hydrogen and halogen such as chloro, and bromo groups, X and X¹ represents hydrogen & halogen such as fluoro, chloro & bromo, alkyl or

alkoxy consisting of 1 to 3 carbon atoms which comprises reacting, a compound of the formula 1



where Z has the meaning given above with a compound of the formula II



where X and X<sup>1</sup> have the meaning given above in the presence or absence of protic solvents.

The aompound of the invention are pharmacologically active and posses potent analgesis, antinflammatory and antispasmodic activity.

Compl. specn. 16 pages.

Drg. 1 sheet

Ind. CLASS:

165912

Int. Cl.4: F 27 B 1/20

"APPARATUS FOR CHARGING A SHAFT FUR-NACE".

Applicant: PAUL WURTH S. A., A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG, OF 32 RUE D'ALSACE, L-1122 LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG.

Inventor(s): MARC SOLVI, GILBERT BERNARD & EMILE LONARDI.

Application for Patent No. 406/Del/86 filed on 5th May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

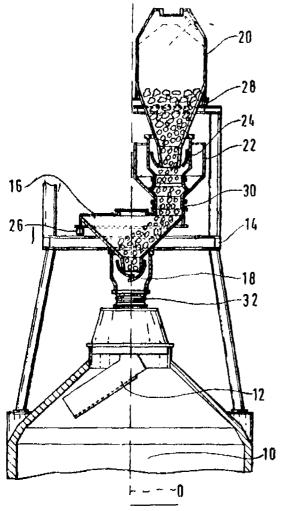
# 6 Claims

Apparatus for charging a shaft furnace (40) comprising : a rotary or oscillating distribution (42) spout:

- a hopper (70) with a central discharge aperture situated above the spout and controlled by a dosing (72) device acting symmetrically about the central axis 0 of the furnace and surmounted by two storage (54) chambers (56) juxtaposed on each side of the vertical axis of the furnace and supported by pressure cells (52) the said chambers being provided with discharge (58, 60) pipes, directed towards the hopper;
- a pair of sealing valves (66, 68) and a pair of dosing valves (62, 64) associated respectively with the discharge pipes, and serving to enable the chambers to communicate in alternation with the interior of

the furnace characterised in that the said hopper (70) is contained in a tight carcase (46) into which the discharge pipes extend:

said hopper being suspended from the carease by means of pressure (82) cells and that means are provided outside the carease to cause the hopper to rotate about the axis 0 of the furnace and to actuate its dosing device (72) by means of a central suspension system of the hopper.



Compl. specn. 13 pages

Drg. 3 sheets

Ind. CLASS: 156 A, 6A3

165913

Int. Cl.4: F 01 C 3/00, F25B 9/00.

WOBBLE PLATE TYPE COMPRESSOR.

Applicant: SANDEN CORPORATION, A JAPANESE COMPANY OF 20 KOTOBUKICHO, ISESAKI-SHI, GUNMA 372, JAPAN.

Inventor(s): KIYOSHI TERAUCHI.

Application for Patent No. 476/Del/86 filed on 29 May, 1986.

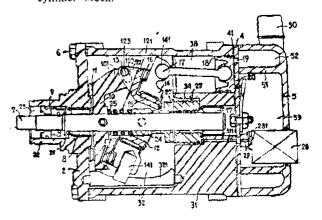
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A wobble plate type compressor with :

 variable capacity mechanism including a plurality of pistons reciprocating in cylinder bores of a cylinder block;

- a wobble plate reciprocating said pistons through piston rods connecting said pistons with said wobble plate:
- a cylindrical member having a slider slidably disposed on the outer surface of a drive shaft, changing rotational movement into wobble movement
- an acuator for varying of an angle of an inclined surface of said wobble plate by moving a position of said slider according to an operation of an electromagnetic valve. and changing a stroke volume of said pistons:
- a binge portion formed on=an inclined surface portion of said cylindrical member (12) having a hole for inserting a pin-shaped member:
- a cam rotor having a long hole to movably dispose said pin-shaped member connected to said drive shaft;
- said actuator being positioned in the center of said cylinder block.



Compl. specn. 13 pages

Drg. 3 sheets

Ind. CLASS: 39 B, 39 P, 39 N

165914

Int. Class4: C 01 D 5/00, 7/00 & 13/00.

PROCESS FOR RECOVERING POTASSIUM CARBONATE, POTASSIUM SULPHATE AND POTASSIUM LIGNOSULPHONATE FROM THE SPENT AQUEOUS COOKING LIQUOR RESULTING FROM THE PULPING OF LIGNOCELLULOSIC MATERIAL.

Applicant: POTASH CORPORATION OF SASKAT-CHEWAN, A CORPORATION INCORPORATED UNDER THE LAWS OF THE PROVINCE OF SASKATCHEWAN IN THE DOMINION OF CANADA. HAVING ITS HEAD OFFICE AT PCS TOWER, SUITE 500, 122-1ST AVENUE SOUTH, SASKATOON, SASKATCHEWAN, CANADA

Inventors: ALFRED WONG & GARY B DERDALL.

Application for Patent No. 511/Del/86 filed on 11th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch. New Delhi-110005.

#### 9 Claims

A process for recovering a potassium salt selected from potassium carbonate, potassium sulphate and potassium lignosulfonate rom the spent aqueous cooking liquor resulting from the pulping of lignocellulosic material which comprises the steps of ;

 (a) digesting lignocellulosic material with a potassium based aqueous cooking liquor to obtain an aqueous slurry of partially delignified pulp of said lignocerlulosic material in said liquor;

- (b) separating in any known manner said pulp from said slurry and recovering the spent potassium-based aqueous cooking liquor;
- (c) concentrating in any known manner said spent cooking liquor;
- (d) subjecting said concentrated spent cooking liquor to oxidation in order to precipitate therefrom potassium sulphate and recovering in any known manner said potassium sulphate: and
- (e) further concentrating in any known manner the remaining liquor to recover therefrom potassium lignosulfonate and potassium carbonate.

Compl. specification 17 pages.

Ind. CLASS: 53 C

165915

Int. Cl.4: B 62 M 1/00.

A SPEED CHANGE MECHANISM FOR A LEVER PROPELLED BICYCLE.

Applicant: BYUNG D YIM, A U.S. CITIZEN, OF 50 REDWOOD DRIVE, PENFIELD. NEW YORK, UNITED STATES OF AMERICA.

Inventor: MAN TAIK SEOL.

Application for Patent No. 553/Del/86 filed on 25th June. 1986.

Divisional to Application No. 778/Del/83 filed on 22nd November, 1983.

Ante dated to 22nd November, 1983.

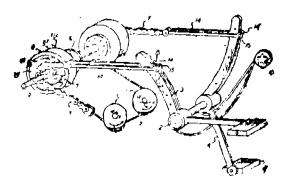
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

A speed change mechanism for a lever propelled bicycle having:

- an assembly of a pedal lever mounted on a pivot for oscillating movement;
- a chain connecting the driving mechanism of the wheel of said bicycle;
- said speed change mechanism compaising a speed change arm mountable on said pivot for oscillating movement and having an edge extending from said pivot longitudinally therefrom;
- a pin movably disposed on said longitudinal edge of said arm;
- said arm having a plurality of members pivotally mounted thereon and disposed in spaced relationship longitudinally along said arm:
- said members being engageable with said pin and being pivotally moveable below and above said edge of said arm or releasable engagement of said pin therewith;
- said arm having a bar moveable longitudinally of said arm and located below the pivot of said members said bar having a plurality of means successively engageable with corresponding means on said members;
- 3-457 GI/89

- said successively engageable means being spaced longitudinally along said bar for successively moving different ones of said members below and above said edge of said arm to bring said members into engagement with said pin for changing the effective length of said arm;
- a knob connected to said bar through cables to move said bar in its longitudinal direction for change of speed.



Compl. specn. 12 pages

Drg. 7 sheets

Ind. CLASS: 84 A

165916

Int. Class4: F23B 1/00, 1/30.

A SOLID FUEL FIRED VAPOUR PRODUCER,

Applicant: SULZER BROTHERS LIMITED, A SV'SS COMPANY, OF CH-8401 WINTERTHUR, SWITZEP. LAND.

Inventor: KARL REES.

Application for Patent No. 775/Del/86 filed on 29th August, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 3 Claims

A solid fuel fired vapor producer having a vertical gas flue which is in reactangular cross-section and is embodied by tubes welded together in gastight mannera funnel which is also embodied by tubes welded together ingastight manner being disposed at the bottom end of the fiue, the funnel being a combination of four plane walls and being formed with a rectangular outlet opening at its bottom end, characterised in that all the funnel walls are trapezoidal the flue tubes and the funnel tubes extend helically and are flowed through upwardly by the working medium, the flue tubes merge directly into the coiling of the funnel tubes, and the following angle relationships being present together in said funnel:

$$\beta = \infty - 2 \delta$$
$$\gamma = \infty$$

 $\dot{\Sigma} \equiv 2 \propto -\delta$ 

#### where:

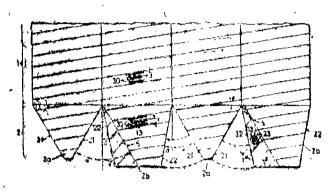
c denotes the angle included by the vertical and an inclined edge of the trapezoidal will bounding a short side of the outlet opening;

β denotes the angle included by the vertical and an inclined edge of the trapezoidal wall bounding a long side of the outlet opening;

 $\gamma$  denotes the angle included by the vertical and a boundary straight line in the trapezoidal wallbounting a long side of the outlet opening, on which line the angle  $\delta$  of the helically extending tubes changes to a transition angle;

 $\delta$  denotes the inclination to the horizontal of the funnel tubes in the trapezoidal walls; and

 $\Sigma$  denotes the transitional angle of the tubes to the horizontal in the zone between the straight boundary line and the adjacent inclined edge and the trapezoidal wall.



Compl. specn. 9 pages

Drg. 2 sheets

Int. CLASS4 : E 64 B 2/00

165917

A WALL MEMBER AND A WALL MADE OF SAID WALL MEMBERS.

Applicant & Inventor: Al EJANDRO STEIN, OF RESI-DENCIAS SIERRA NEVADA, CALLE CHULA VISTA CHULA VISTA LAS MERCEDES, CARACAS, VENE-ZUELA, A CITIZÈN OF VENEZUELA.

Application for Patent No. 902/Del/86 filed on 13th October, 1986.

Divisional to application No. 84/Del/84 filed on 30th January, 1984.

Ante dated to 30th January, 1984.

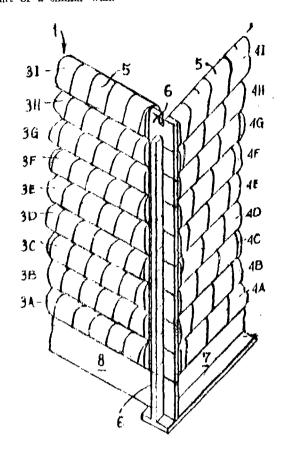
Appropriate office for opposition proceedings (Rule 4, Patents Rules; 1972) Patent Office Branch, New Delhi-110005.

# 7 Claims

A wall member (5) for the formation of a wall adapted to be interlinked with a similar wall (1) to form a building structure, said wall member comprising:

a hollow tubular structure (5) member (18) having affixed to at least on end thereof an end connector (6);

said end connector (6) comprising a member the innerend of which is provided with means as herein described for securing said end connector to said hollow tubular structural member and the outer end is provided with attachment means for securely attaching said end connector to at least one attachment means of another end connector of an intersecting hollow tubular structural member forming part of a similar wall.



Compl. specn. 16 pages

Drg. 4 sheets

Ind. CLASS: 32 F 2(b)

165918

Int. Cl.4: C 07 D 209/82.

A PROCESS FOR THE SYNTHESIS OF NOVEL CIS-1, BENZOLE-1, 2, 3, 4, 4a, 5, 11, 11a-OCTAHYDRO-6H-PYRIDO (3, 2-b) CARBAZOLE AND CIS-4-BENZOLE-1, 2, 3, 4, 4a, 5, 6, 11c, GCTAHYDRO-7H-PYRIDO (2, 3c-) CARBAZOLE.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s); ANIL KUMAR SAXENA, HEMAND KUMAR SINGH, BHOLANATH DHAWAN & NITYA ANAND.

Application for Patent No. 1052/Del/86 filed on 3rd December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A process for the synthesis of Cis-1-benzoyl-1, 2, 3, 4, 4a, 5, 11a-octahydro-6H-pyrido (3, 2b) carbazoles and Cis-4-benzoyl-1, 2, 3, 4, 4a, 5, 6, 11c-octahydro-7H-pyrido (2, 3-b) carbazoles of the formulae II and III.

Formula II

Formula III

respectively of the accompanying drawings which comprises condensing Cis-benzoyl 2, 3, 4, 4a, 5, 7, 8, 8a-octahydro 6 (IH) quinolone of the formula I.

Formala 1

with phenyl hydrazine under acidic conditions to give a mixture of the linear and angular isomers of the formulae II and III, and separating these isomers by column chrosmatography.

Compl. speen. 7 pages

Drg. 1 sheet

Ind. CLASS: 32 F 2(b)

165919

Int. Cl.1: C 07 D 209/82.

A PROCESS FOR T.IE SYNTHESIS OF NOVEL CIS 1, 2, 3, 4, 4a, 5, 1, 11a-OCTAHYDRO-6H-PYRIDO (3, 2-b) CARBAZOLE.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN, REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1360).

Inventor(s): ANIL KUMAR SAXENA, HEMANT KUMAR SINGH, BHOLA NATH DHAWAN & NITYA ANAND.

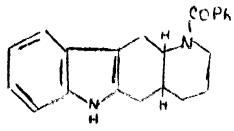
Application for Patent No. 1053/Del/85 filed on 3rd December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 11 Claims

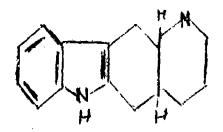
A process for the synthesis of novel cis 1, 2, 3, 4, 4a, 5, 11, 11a-octahydro-6H-pyrido (3, 2-b) carbazole of the formula of the drawing accompanying this specification which comprises reducing cis-1-benzoyl-1, 2, 3, 4, 4a, 5,

11, 11a-octahydro 6(1-pyrido (3, 2-b) carbazole of the formula (1)



Formula I

by known methods to give cis-1-benzole-1, 2, 3, 4, 4a, 5, 11, 11a-octahydro-6H-pyrido (3, 2-b) carbazole of the formula (2)



Formula 11

and debenzylating the compound of the formula (2) by know methods.

Compl. speen. 7 pages

Drg. 1 sheet

Ind. CLASS : 32 C

165920

Int. Cl.4 : C 12 P 19/04.

A PROCESS FOR THE PREPARATION OF LOW MOLECULAR WEIGHT XYLANESE FROM CHAINASTRAIN.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES, ACT (ACT XXI OF 1860).

Inventor(s): MANDAYAM CHAKRAVARTHI SRINI-VASAN, HARI GODAL VARTAK, MEENAKSHI VILAS RELE, KULFODISAN BALWANT BASTAWDE.

Application for Patent No. 1092/Del/86 filed on 11 December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Pelbi-110005.

# 16 Claims

A process for the preparation of low molecular weight xylanase (LMX) which comprises culturing a strain of actiono mycete chainia baving the accession No. 2980 at the National Collection of Industrial micro-organisims, Na lonal Laboratory, Pune, and designated as (NCL-82-5-1) under Laboratory. Pune, and regionated as (NCL-82-5-1) under aerobic submerged ferro-attation in a growth medium such as herein described to produce an extracellular xyanese mixture predominantly comprised of xylanase 1 having a molucular weight in the cause of 20000-25000 and xylanase 2 having a molecular weight around 6000 daltons, separating the enzymes by known methods and purifying the separated low molecular weight xylanese (xylanase 2) by known methods.

Complete specification 12 pages.

Int. CLASS: B 01 d 1/00

165921

THIN-LAYER EVAPORATOR FOR HIGH-VISCOSITY FIGURES.

Applicant: MONTEDJPE S.P.A., OF 31, FORO BUONAPARTE, MJLAN, ITALY.

Inventors: (1) MAURO LOCONSOLO, (2) CLAUDIO BUONERBA, (3) ANTONIO FUCILE, (4) FRANCESCO FERRARI.

Application No. 850. Cal/1987 filed October 30, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

A thin-layer evaporator for high-viscosity fluids comprising:

- a treating chamber, surrounded by a heating or cooling shell, and a rotor arranged inside said chamber and coasial with it;
- characterized in that the notor is equipped with only a type of blade-shaped extensions which have the functions of feeding, thrusting and spreading, are sloping with respect to both the rotor and the axial plane passing through their connection line and are arranged in at least two axial, equidistant and staggered lows;
- said blade-shaped extensions having the same pitch and cach extension of each row-viewed in the axial direction-being offset, with respect to the corresponding extensions of the adjacent rows, by a space to the half pitch of the extensions.

Compl. speen. 16 pages

Drg. 1 sheet

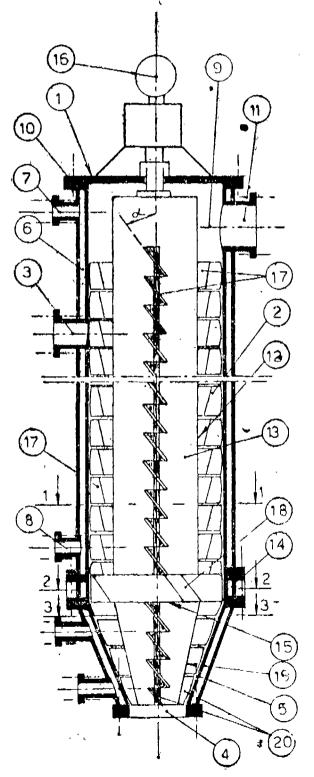


Fig. 1

#### CLASS:

165922

int. Cl.: B 29 d 7/00.

AN IMPROVED OF FORMING A POLYCRYSTAL-LINE THIN FILM ON A TRANSPARENT SUBSTRATE FOR THE PRODUCTION, FOR EXAMPLE, OF CAD-MIUM SULPHIDE SOLAR CELLS.

Applicant: PRUTEC LIMITED, OF 142, HOLBORN BARS, LONDON ECIN 2NH, ENGLAND.

Inventor: TOBY JOHN CUMBERBATCH.

Application No. 869/Cal/1987 filed November 06, 1987.

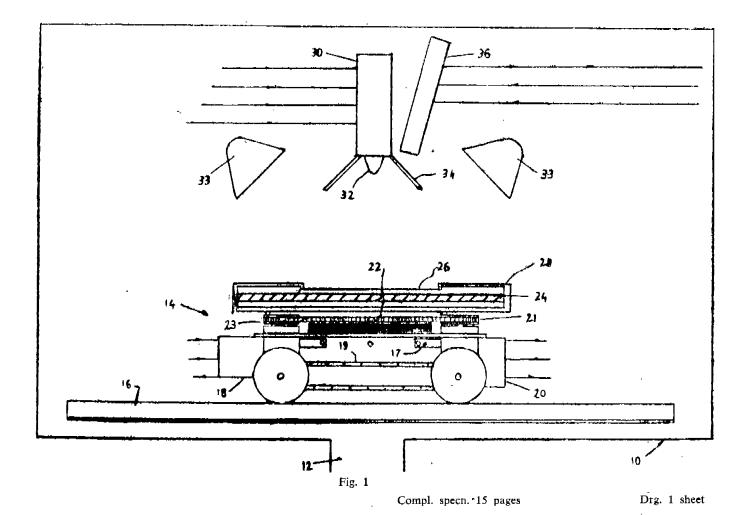
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

An improved method of forming a polycrystalline thin film on a transparent substrate, which comprises:

spraying a suitable precursor solution onto the substrate and heating the substrate to evaporate the precursor solvent on the substrate;

characterised in that the droplets of precursor solution are electrostatically charged and are electrostatically attracted to the surface of the substrate, and in that droplets impinging on the surface of the substrate are heated by radiant energy incident upon the surface of the substrate from the opposite side from the spray.



Int. CLASS: C 10 B 9/00

165923

IMPROVED BEEHIVE OVEN CHIMNEY.

Applicant: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD., OF GONDWANA PLACE, KANKE ROAD, RANCHI-834008, BIHAR, INDIA.

Inventors: (1) DEBIDAS BASU, (2) RANJIT KUMAR CHAKROBORTY, (3) TARUN KUMAR SINHA.

Application No. 998/Cal/1987 filed December 23, 1987.

Complete Specification left on 1st March, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

An improved bechive oven chimney characterised in that built-in passage is provided/made in the chimney wall for preheating of air travelling through the said passage by its own draught, said passage leading to the combustion zone within the chimney stack space for allowing the preheated air to enter into the said combustion zone, and that chimney outlet is made and/or provided with means to have reduced effective closs-sectional area for reducing the flow of gas through the oven, while increasing the draught for the flow of the said prehested air, whereby emission of particulate matters/volatiles through the chimney is considerable checked due to the combustion of the particulate matters/volatiles within the said chimney stack space, and overall thermal gain is achieved for the oven.

Compl. specn. 15 pages

Drg. Nil

CLASS: 32-F.,

165924

Int. Cl.: C 07 d 498/10.

PROCESS FOR THE PREPARATION OF RYFAMYCIN DERIVATIVE SALTS.

Applicant: SPA SOCIETA' PRODOTTI ANTIBITICI S.P.A., VIA BIELLA, 8, 20143 MILAN, ITALY.

Inventors: (1) TIBERIO BRUZZESE, (2) ARMANDO CEDRO, (3) ROLGER HANS VAN DEN HEUVEL.

Application No. 44/Cal/88 filed January 18, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

A process for preparing a compound of formula (1) of the accompanying drawings:

#### Formula I

wherein B represents a non toxic, pharmacologically acceptable, inorganic or organic base, which comprises reacting 3-[1-diethyl-aminoethylidene) azinomethyl] rifamycin SV with equimolar amounts of the inorganic or organic base, such as herein described in an aqueous or organic solvent optionally in the presence of ascorbic acid or its salts, and isolating the obtained salt by evaporation to dryness or by precipitating agents.

Compl. specii. 8 pages

Drg. 1 sheet

Int. CLASS: B 01 d 53/02

165925

A PRESSURE SWING ADSORPTION SYSTEM.

Applicant: UNION CARBIDE CORPORATION, LOCATED AT 39 OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

Inventors: (1) ROBERT THOMAS CASSIDY, (2) KISHORE JASRAJ DOSHI.

Application 31/Cal/1988 filed January 14, 1988.

Divisional of Application No. 452/Cal/84.

Anti-dated to 27th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

In a pressure swing adsorption system having at least four absorbent beds for the selective adsorption of at least one gas component from a feed gas mixture, said system having conduit means for passing void space gas released from each bed, on a cyclic basis, to a bed(s) initially at a lower pressure to equalize the pressure therebetween and for providing pure gas to a bed undergoing purge at a lower desorption pressure, the improvement comprising:

(a) an external surge drum;

- (b) means for passing a portion of the void space gas released from a bed for use as purge gas to said external surge drum simultaneously with the introduction of the remaining portion of said released void space gas directly into a bed to be purged; and
- (c) means for passing void space gas from said external drum to a bed to be purged.

whereby product recovery is enhanced by the relatively short provide-purge time/long time occurring in each bed of the adsorption system.

Compl. specn. 21 pages

Drg. Nil

CLASS: 94-G

165926

Int. Cl. : F 16 p 3/00, 3/20.

SAFETY SYSTEM FOR COAL PULVERIZERS.

Applicant: THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors: (1) MARSHALL COOPER, (2) ROBERT POCOCK.

Application No. 50/Cal/88 filed January 21, 1988.

Divisional of Application No. 448/Cal/84.

Anti-dated June 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims

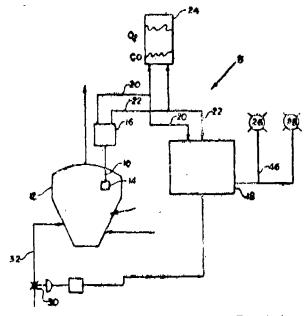
A safety system for a coal pulverizer comprising:

means for measuring the actual net oxygen level in the coal pulverizer and establishing a signal indicative thereof;

means for measuring the rate of change of carbon monoxide level in the coal pulverizer and establishing a signal indicative thereof;

comparing means for comparing the actual signals measured by the net oxygen measuring means and the rate of carbon monoxide change measuring means with predetermined setpoints for establishing respectively independent control signals whenever the predetermined setpoints are exceeded; and

alarm means responsive to either of said control signals for indicating a potentially hazardous condition in the coal pulverizer.



Compl. specn. 15 pages

Drg. 2 sheets

CLASS: 55-E4

165927

Int. Cl.: A 61 k 9/48.

PROCESS AND APPARATUS FOR PRODUCING GELATIN COATED CAPLETS.

Applicant: MCNEILAB, INC., SPRINGHOUSE, PA-19477, OF THE STATE OF FENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor: NORBERT I BERTA.

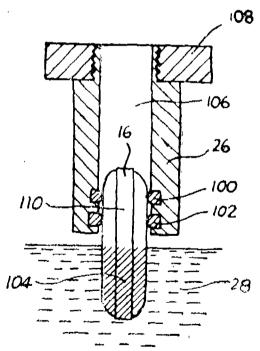
Application No. 99/Cal/1988 filed February 04, 1988.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 61 Claims

A method for coating a caplet, such as solid oblong shaped medicament having two ends, with a gelationous coating to produce a simulated capsule like medicament comprising:

- (a) providing a holding means having a caplet channel defined therein;
- (b) inserting an end (I) of the caplet into a first holding means, leaving the other end (II) of the caplet exposed;
- (c) applying a gelatinuous coating to said second exposed end of said caplet;
- (d) permitting said gelatinuous coating to dry to form a coated end (II);
- (e) displacing said caplet through said caplet channel and holding the coated end (II) of the caplet in a second holding means so as to expose end (I) of the caplet;
- (f) aplying a gelatinuous coating to said end (I) of said caplet, said gelatinuous coatings on end (I) and end (II) substantially covering said caplet; and
- (g) permitting said gelatinuous coating on said end
  (I) to dry and forming a simulated capsule—like medicament



Compl. speen, 32 pages

Drg. 5 sheets

CLASS:  $32-A_1$ 

165928

Int. Cl.: C 09 b 27/00, 31/00, 41/00.

PROCESS FOR THE PREPARATION OF WATER-SOLUBLE MONAZO AND DISAZO COMPOUNDS. Applicant: HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors: (1) MARCOS SEGAL, (2) MICHAEL KUNZE.

Application No. 750. Cal/1988 filed September 08, 1988.

Divisional of Application No. 261/Cal/86.

Anti-dated to April 1, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims

1. A process for preparing a water-soluble azo compounds which conforms to the general formula (1) of the accompanying drawings

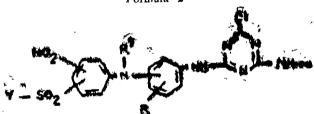
#### wherein :

Z is a radical of the general formula (2) in which

R¹ stands for a hydrogen atom or an optionally substituted alkyl group of 1 to 4 carbon atoms, it being possible for the two R¹ to be identical to or different from each other.

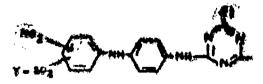
Formula 1

Formula 2



Formula 2(a)

Formula (2b)



Formula 2 (c)



Formula (3)

- R denotes a hydrogen atom or a sulfo group and
- Y is the vinyl group or a β-thiosulfatoethyl, β-phosphatoethyl, β-chloroethyl or a β-sulfatoethyl group;
- K is the number zero or 1;
- D is a group of the general formula (3)

in which

- R<sup>2</sup> denotes a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms, a chlorine atom or a sulfo group; and
- R<sup>3</sup> is a hydrogen atom or a sulfo group, it being possible for R<sup>2</sup> and R<sup>3</sup> to be identical to or different from each other:
- E is the radical of a couplable and diazotizable compound which in the synthesis of compounds (1) serves first as a coupling component and then as a diazo component and

represents a phenylene radical, preferably 1, 4-phenylene radical, which may be substituted by one or two substituents which are selected from the set consisting of 2 alkyl of 1 to 4 carbon atoms, 2 aloxy of 1 to 4 carbon atoms, 1 chlorine, 1 bromine, 1 alkanoylamino of 2 to 5 carbon atom, which may be substituted, 1 benzoylamino, 1 sulfo, 1 carboxy, 1 ureido, 1 phenylureido and 1 alkylsulfonylamino of 1 to 4 carbon atoms, or denotes a naphthylene radical which may be substituted by 1 or 2 sulfo groups or the -SO<sub>2</sub>-Y group shown, or by 1 sulfo group and the -SO<sub>2</sub>-Y group shown, Y having the abovementioned meaning and the two Y being identical to or different from each other;

- R" is a hydrogen atom or a chlorotriazinylamino radical of the abovementioned and defined general formula (2):
- K is in the case where R'' is denote: a radical of the general formula (2), a 1-hydroxynaphthylene radical which contains the azo group bonded in the 2-position, or is a 2-hydroxynaphthylene radical which contains the azo group bonded in the 1-position, and which may both be substituted by 1 or 2 sulfo groups, or
- K-R" where R" is a hydrogen atom is the 1-hydroxynaphthyl radical which contains the ago group bonded in the 2-position or is the 2-hydroxy-naphthyl radical which contains the azo group bonded in the 1-position, which may both be, preferably are, substituted by 1 or 2 sulfo groups, or which may both be substituted by an optionally submitted alkanoylamino group of 2 to 5 carbon atoms or an optionally substituted benzoylamino group or preferably by 1 or 2 sulfo groups and an optionally substituted alkanoylamino group of 2 to 5 carbon atoms or an optionally substituted benzoylamino group, or

is a phenyl radical which is substituted, preferably in the p-position, by a monosubstituted or disubstituted amino group whose substituents are selected from the group of substituents consisting of alkyl of 1 to 4 carbon atoms, hydroxyatkyl of 1 to 4 carbon atoms, carboxyalkyl of 2 to 5 carbon atoms, sulfaalkyl of 1 to 4 carbon atoms, sulfatoalkyl of 1 to 4 carbon atoms, sulfatoalkyl of 1 to 4 carbon atoms, sulfatoalkyl of 2 to 5 carbon atoms, carboxyalkyl having alkyl

redicals of 1 to 4 carbon atoms each, phenylalkyl having an alkyl radical of 1 to 4 carbon atoms, (it being possible for its phenyl radical to be substituted by methyl, ethyl, methoxy, ethoxy, chlorine, carboxy, and/or sulfo), phenyl and phenyl substituted by alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, chlorine, carboxyl and/or sulfo, and which phenyl radical K-R" may additionally be substituted by 1 or 2 substituents which are selected from the group consisting of 2 alkyl of 1 to 4 carbon atoms, 2 alkoxy of 1 to 4 carbon atoms, 2 chlorine, 1 bromine, 1 alkanoylamino of 2 to 5 carbon atoms which may be substituted, 1 benzoylamino, 1 sulfo, 1 carboxy, 1 ureido, 1 phenylureido and 1 alkylsulfonylamino of 1 to 4 carbon atoms,

#### which comprises

coupling a diazonium compound of an amino of the general formula (9) (in which Z, D, E and K have the meanings mentioned for the formula (1) with a couplable compound of the general formula H-K-R" (where K and R" have the abovementioned meanings), at a temperature between 0 and 30°C and at a pH value between 4 and 7.

Compl. specn. 35 pages

Drg 13 sheets

CLASS: 55-E4

165929

Int. Cl.: A 61 k 9/22.

PROCESS FOR PREPARING AN IBUPROFEN SUSTAINED RELEASE SHAPED AND COMPRESSED TABLET.

Applicant: MCNEII, AB, INC., OF SPRINGHOUSE, PENNSYLVANIA 19034, UNITED STATES OF AMERICA.

Inventors: (1) GALEN WESLEY RADEBAUGH. (2) THOMAS NICHOLAS JULIAN, (3) ROBERT GLINECKE.

Application No. 225/Cal/88 filed March 17, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office. Calcutta.

#### 6 Claims

The process of preparing an ibuprofen-sustained release shaped and compressed tablet characterized by a long-lasting slow and relatively regular incremental release of the ibuprofen upon administration comprising the following steps:

- (A) forming a granulating agent by dissolving 5-30 parts by weight Providone in alcohol or an alcoholwater mixture;
- (B) blending together the following ingredients in dry powder form;

Ingredient	Parts by Weight		
Ibuprofen	440		
Ethylcellulose	3-12		
Wicking agent	10-35		
Erosion promoter	5-25		

(C) adding the granulating agent from Step A to the blended powders from Step B, and mixing in a high shear granulator to form a wet granulation;

- (D) drying the wet granulation of Step C;
  - (E) milling the dried granulation from Step D;
  - (F) thoroughly blending the milled dried granulation from Step E with the following ingredients in dry powder form;

Ingredient	Parts by Weight
Erosion promoter Wicking agent	1-20 3-20
Lubricant	0141
Glidon	210

(G) compressing the final granulation from Step 1 into a tablet or tablet layer.

Compl. specn 27 pages

Drg. 1 sheet

Int. Cl. : B 63 b 21/00.

AN IMPROVED METHOD OF ASSEMBLING A MOORING SYSTEM IN A VESSEL.

Applicant: KEY OCEAN SERVICES, INC., OF 732 PELICAN, MAGNOLIA, TEXAS 77355, UNITED STATES OF AMERICA.

Iuventors: (1) JOE WAYNE KEY, (2) FRED EVANS SHUMAKER.

Application No. 1047/Cal/1988 filed December 20, 1988. Divisional of Application No. 711/Cal/85.

Anti-dated to October 8, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims

An improved method of assembling a mooring system (H) in a vessel provided with a vertical well (W) extending from deck (D) to bottom plates of the vessel, the method bein's characterised by:

Connecting a lower bearing ring (L) to the underside of said bottom plates (P) said lower bearing ring (L) circumscribing said well (W);

supporting a lower turret unit (A) substantially within said lower bearing ring (L) said lower turret unit (A) having an annular shape with a larger cross-sectional area, in a plane perpendicular to the longitudinal axis of said well (W), than the cross-sectional area of said well (W) in the same plane:

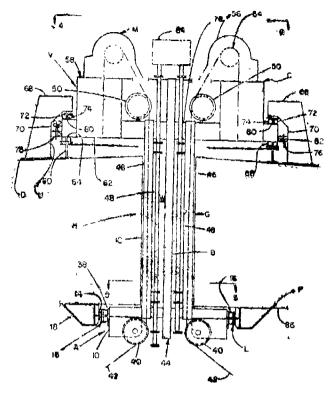
placing a middle turret unit (B) substantially within said well (W):

connecting said middle turnet unit (B) to said lower turnet unit (A);

connecting an upper bearing ring (U) to the deck, said upper bearing ring circum-cribing said well (W); and

connecting an upper turret unit (C) to said middle turret unit (B), said upper turret unit (C) having an annular shape with a larger cross-section I area, in

a plane perpendicular to the longitudinal axis of said well (W), than the cross-section of said well (W) in the tame plane vibercaped the assembly of said appear (C), middle (B) and lower (A) turret units to supported and guided by said appear bearing ring (U) and further guided by said lower bearing ring (L).



Compl. specn, 20 pages

Drg. 3 sheets

Ind. CLASS : 104 N

165931

Int. Cl.4 : C08C 19/00.

PROCESS FOR MAKING IMPROVED RUBBER LATEX FOAM UPHOISTERY PRODUCT,

Applicant & Inventor: ASHOK DAWAR, 98/1, RAJIN-DER NAGAR, STREET NO. 8. DEHRADUN (U.P.) 248001. AN INDIAN NATIONAL.

Application for Patent No. 166/Del/85 filed on 26 February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

# 3 Claims

A process for making improved rubber latex foam upholstery product such as herein described which consists in preparing latex rubber foam froth by the conventional method, pouring the said foam froth into a pre-heated mould inside which a coir sheet of predetermined thickness and size is placed on the bottom of the mould, closing the mould and allowing the rubber latex foam to gel, after the gelling is complete, taking out of the mould the rubber latex foam product having the colr sheet embedded in its one face and vulcanising the rubber latex foam product by conventional method.

Compl. specification 6 pages.

Int. CLASS4: BC1D 51, 00; B21K 21/00

165932

HOLLOW OPEN-ENDED STRUCTURE SUCH AS A CONDUIT OR DUCT FOR CONVEYING FLUIDS, HOUSING CABLES OR USE AS A THOROUGHFARE FOR PEDESTRIAN OR VEHICULAR TRAFFIC.

A DESDE OF TWO SAME MARCES MATTERS, A FRENCH CITIZEN OF 17 AVENUE ARISTIDE BRIAND, 15000 AURILLAC, FRANCE.

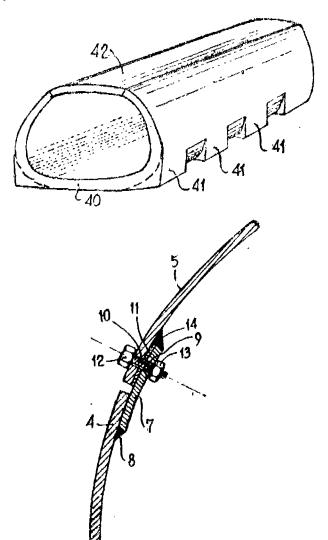
Application for Patent No. 185/Del/86 filed on 3rd March, 1986.

Divisional to Application No. 844/Del/82 filed on 16th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 20 Claims

Hollow oper-ended structure such as a conduit or duct for conveying fluids, housing cables or use as a thoroughfare for pedestrian or vehicular traffic, said structure having a cylindrical or substantially cylindrical internal cross-section and comparising at reast a flat-bottomed base component  $(A_1)$ , a pair of sidewall components  $(A_0)$  one on either ide of said base, said sidewall components extending substantially vertically with respect to said base and an upper roof component (A1) bearing on each of said sidewall components, said sidewall components being provided externally with stabilising members (41) to enable said sidewall components to remain apright and self-supporting when said structure is provided on the ground without the necessity of any additional support, said stabilising members being provided at their lower ends with a horizontal planar surface in substantially the same plane as the under surface of the hollow structure, said components being previously prepared longitudinal components, each component bearing laterally on the other through the medium of longitudinal joints (JL).



Compl speen 34 pages

Drg. \$ sheets

Ind. CLASS: 170 D 165933

Int. Class4 : C II D 1.02.

A FABRIC SOFTENING PARTICULATE DETERGENT COMPOSITION.

Applicant: COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022. UNITED STATES OF AMERICA.

Inventors: PALLASSANA NARAYAN RAMACHAN-DRAN, CHARLES JOHN SCHRAMM, HELMUT PETER LAZECKY & MARTIN DAVID REINISH.

Application for Patent No. 198/Del/86 filed on 5th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A fabric softening particulate detergent composition which comprises from 5 to 25% of synthetic anionic organic detergent of the kind such as berein defined 20 to 60% builder (s) 2 of the kind of inorganic as herein defined for the detergent 5 to 40% of water soluble inorganic filler salt of the kind such as herein defined a detergency improving proportion of a water solyble copolymer of maleic and acrylic acids, 5 to 16% of moisture, 0 to 5% of adjuvent(s) of the kind such as herein defined, in spray dried bead form and 5 to 30% of fabric softening agglomerate of bentonite and sodium sulfate and/or sodium carbonate, which agglomerate comprises particles of sizes in the range of Nos. 10 to 140 sieves, U.S. Sieve Series, which are agglomerates of mixtures finely divided bentonite and sodium sulfate and/or sodium carbonate, with at least a major proportion by weight of weight of each of the bentonite and sodium sulfate and/or sodium carbonate particles being less than No. 100 sieve size, with the proportions of bentonite and sodium sulfate and/or sodium carbonate being within the range of one part of sodium sulfate and/or sodium carbonate by weight of 2 to 10 parts of bentonite by weight, with the bentonite and sodium sulfate and/or sodium carbonate particles being held together in the agglomerate particles by hydrated bentonite at the surfaces of said particles and with the agglomerate particles being of a moisture content in the range of 5 to 16% by weight.

Compl. specn. 49 pages

Drg. 1 sheet

Ind. CLASS: 111

165934

Int. Cl.4: B65C 1/00.

AN ATTACHMENT FOR USE WITH A LABELLING MACHINE.

Applicant(8) - SWARAN SINGH AND SUSHII KAUR BOTH INDIAN NATIONALS OF C-2/8, MAYA PURI. PUASE-II, MEW DELHI-110064, TRADING AS S. S. ENGINEERING WORLS, A REGISTERID PARTNER-SHIP FIRM AT THE SAME ADDRESS.

Inventor: SWARAN SINGH.

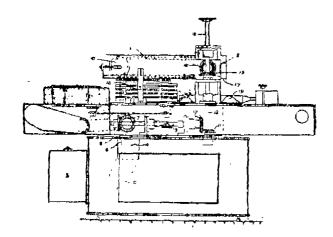
PART III—SEC. 2]

Application for Patent No. 233/Del/86 filed on 13th March, 1980

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

An attachment for use with a labelling machine for affixing labels onto flat surfaces of bottles or containers and to prevent the bottle from toppling or dropping during affixing of the label in the working station of said machine, affixing of the label in the working station of said machine, said attachment comprising a height adjustable timber belt (1), one end of said timer belt (1) being supported on a post (2) while the other or opposite end is freely suspended, a power transmission means (4, 5, etc.) for driving the said timer belt from a drive source (3) said timer belt being capable of holding the bottles or containers from the top in the working station of the said labelling machine, means (17, 18) for adjusting the height of the timer belt.



Compl. specn. 9 pages

Drg. 2 sheets

Ind. CLASS: 146 D 2

165935

Inft. CL4 : G011 1/52.

Title: PHOTOMETER.

Applicant: HARTMANN & BRAUN AKTIENGESELLS-CHAFT, A GERMAN BODY CORPORATE, OF 6 FRANKFURT/MAIN, GRAFSTRASSE 97, FEDERAL REPUBLIC OF GERMANY.

Inventor(s): WALTER FABINSKI.

Application for Patent No. 251/Del/86 filed on 18 March,

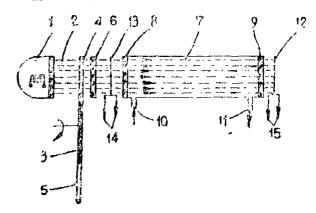
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

# 6 Claims

A photometer comprising a means such as herein described for providing modulated infrared radiation, a measuring cuvette traversed by a measuring gas, the said cuvette having an entrance window (8) facing said means for providing modulated infrared radiation (1) and an exit window (9), there being an output detector (12) provided at said window, the improvement comprising:

an input detector (13) made of polyvinylidenfluoride, having a thickness sufficient to render it partially transmissive to infrared radiation and being disposed

between said means for providing modulated radiation and the entrance window of said cuvette (7).



Compl. speen 13 pages

Drg. 1 sheet

165936

Ind. CLASS: 27 B. G

March, 1986.

Int. Cl.4 : E 04 B 1/08.

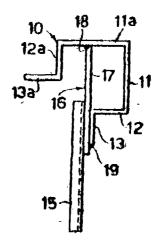
STRUCTURE FOR USE IN CONSTRUCTING METAL FRAMED BUILDING SKELETONS. Applicant & Inventor(s): ANTONIO PANTALONE, AN ITALIAN CITIZEN OF VIA CARPACCIO, 4, MILAN,

ITALY. Application for Patent No. 296/Del/86 filed on 31st

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 20 Claims

Structure for use in constructing metal framed building skeletons and in particular trestlework frameworks, the structure comprising section bats and joining members characterised by each said section bar being at least one angle iron having equal legs, each of said legs being angle from having equal legs, each of said legs be extended at a free end thereof by a first extension at a right angle to the respective said leg and pro projecting therefrom in the same direction as the other leg, a second extension leg extending from each said first leg, a second extension leg extending from each said first extension leg and at right angle to the respective said lirst extension leg each said second extension leg extending away from each other each said first and said second extension legs having a width substantially equal to half width of a said leg of the angle iron, and at least one said jointing member comprising at least one plate fastened to said angle iron at least an inner surface of one of said legs of the angle tron and to an inner surface of said second extension legs of other said second extension leg of other said second extension leg of other said second extension legs of the angle tron and to an inner surface of said second extension leg of other said second extension leg extending first extension leg extending first extension leg extending first e surface of said second extension leg of other said angle iron leg.



Compl. speen, 25 pages

Drg. 8 sheets

Ind. CLASS: 195 GB, 200 C

165937

Int. Cl.+ : E 03 B 1/04, F16K 21/00.

EQUALISING VALVE ASSEMBLY FOR REGULATING WATER FLOW IN A WATER SUPPLY SYSTEM.

Applicant & Inventor: DONALD HUGH CAMPBSLL MACKAY, A NEW ZEALAND CITIZEN, OF 6 PARNELL STREET, LOWER HUTT, NEW ZEALAND.

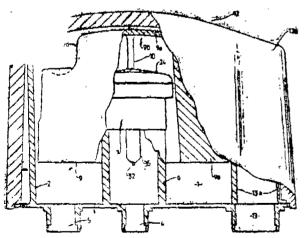
Application for Patent No. 298/Del/86 filed on 31st March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 13 Claims

An equalising value assembly for regulating water flow in a water supply system, said assembly comprising a hollow body (7) having an internal division (7b) to define an inlet part (7a, 7b, 7c) and an outlet part (7b & 24), said inlet part 7a, 7b, 7c) for connection to a source of water supplied at a pressure higher than atmospheric pressure and said outlet part (7b & 24) having at least one outlet aperture (22) for the discharge of water from the body (7), said outlet part (7b, 24) and said internal division (7b) defining a plurality of valve chambers (20, 28) located in space relationship and substantially sealed one from another but each said valve chamber (20, 28) having a part thereof communicating with said outlet aperture(s) (22), and said internal division (7b) having a plurality of separate passages (21) corresponding in number (5 he number of said valve chambers (20, 28) and the said inlet part (7a, 7b, 7c) for passage of water therethrough, said passages (21), being each provided with one end opening to said inlet part (7a, 7b, 7c) and the other end with a part (21a) opening to a respective one of said valve chambers, and cach said port (21a) being closable by a valve members (23a, 23b) normally biassed towards the closed position; and

a pressure actuated control device (10, 34, 46) within the body (7) and having a part (34) of said control device (10, 34, 40) subject to inlet water pressure and moveable (10, 34, 40) subject to inlet water pressure and moveable (10, 34, 40) subject to inlet water pressure and moveable period of said valve chambers (20, 10) here and enable pressure differential between assure and inlet water pressure and inlet to progressively and individually open and the members (23a, 23b) in controlling the



Complete speen, 30 pages

Drg. 6 sheets

Ind. CLASS: 166A, E

165938

Int. Cl.4: B 63 B 7/00, 9/00.

Tide: A NOVEL SAIL ASSEMBLY.

Applicant & Inventor: THOMAS ROBERT ANDERSON, AN AUSTRALIAN CITIZEN, OF 43 KULGOA AVENUE, RYDE, NEW SOUTH WALES, AUSTRALIA.

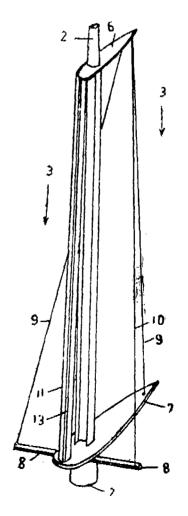
Application for Patent No. 345/Del/86 filed on 17 April, 1986.

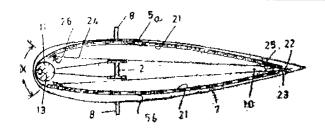
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 11 Claims

A sail assembly comprising a mast (2):

- an upper elongated member (6) fixed laterally to the mast (2);
- a lower elongated member (7) fixed laterally to the mast (2) and parallel to the upper member (6);
- the points of fixing of the upper and lower members to the mast are between the mid-lengths of the upper and lower members and first ends of the members:
- the first ends of the upper and lower members which will be forwardly directed when the sail assembly is mounted on a boat are joined by a connector (11) including at least one track (13);
- runners engaged in the track (13) and fastened to a sail (5) made of flexible sheets material which extends from the track (13) as two panels one to either side of the mast with terminal edges of the panels adjacent the other ends of the upper and lower members;
- pairs of flexible elongated sail profiling elements (22-23) with corresponding elements of said pairs mounted in clongated pockets (21) in the respective sail panels (5a-5b) so as to lie parallel to and between the upper and lower members (6-7) and so as to have forward ends anchored and rear ends which terminate adjecent said terminal edges of the sail panels, sliding joints between rear ends of the profiling elements, and members (24) able to be tensioned to apply bending pressure to said elements (22-23) by the application of longitudinal compressive forces to said elements.





Compl. speen, 13 pages

Drg. 3 sheets

Ind. CLASS: 151E, F

165939

Int. Cl.4: B 65 G 1/00.

A TUBE FEEDING DEVICE FOR A TUBE FILLING MACHINE.

Applicant & Inventor: RAJIV SARIN OF ALLAHABAD BANK BUILDING, 2ND FLOOR, SANSAD MARG, NEW DELHI-110001, INDIA. AN INDIAN NATIONAL.

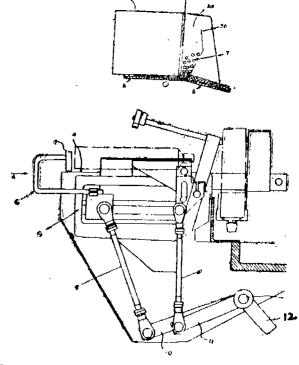
Applicantion for Patent No. 355/Del/86 filed on 21st April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delbi-110005.

#### 5 Claims

A tube feeding device for a tube filling machine comprising

- a cassette (3a) for empty tube (T);
- a central unit comprises at least one block member (5) adapted to occupy a horizontal position or an inclined or vertical position as required by means of a cam-operated mechanism:
- said mechanism comprising a pair of link arms (8, 9) one of which pivotally connected to said block member (5) at the far end and the other at the end near to the said central unit;
- said link arms (8, 9) being operably connected through cranks (10 & 11) and a common shaft (12) with said cam members;
- a tube resting groove or depression (4) secured thereon the said block member (5) for initially accommodating an empty tube (T) in the horizontal position;
- said far end of the said block member being provided with an empty tube pushing head (7) on a plunger rod (6) operated by said link arm connected to the far end of the said block member;
- said block member being in operational association with the said empty tube supplying cassette through an inclined platform (2):
- said platform supporting the said cassette (3a) filled with empty tubes at its free end;
- said cassette either (i) having its walls so formed that it has a tube delivery chute adapted to release only one tube at a time on said inclined platform or (ii) being of a box type having a releasable shutter (3b) and a chamber (3d) formed of walls (3c) extending and/or terminating into a tube releasing chute capable of releasing only one empty tube at a time on to said inclined platform;
- the said cassette walls and/or said platform being provided with a vibrating unit, adapted to vibrate said cassette filled with empty tubes placed on said platform.



Compl. speen. 14 pages

Drg. 4 sheets

Ind. CLASS: 102 D

165940

Int. Class4: 1:01 C 9/00 & 21/00.

HYDRAULIC MECHANISM SUCH AS FOR ENGINE OR PUMP.

Applicant: POCLAIN HYDRAULICS, A FRENCH COMPANY, OF B.P. NO. 12. 60410 VERBERIE, FRANCE.

Inventor: ALAIN WILLIAM NOEL.

Application for Patent No. 362/Del/86 filed on 23rd April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110003.

#### 7 Claims

- A hydraulic mechanism for engine or pump comprising: a cam (3):
  - a cylinder block (8) mounted to rotate with respect to said a plurality of cylinders (10) provided in said cylinder block;
  - a plurality of pistons (11) each mounted to slide inside a corresponding cylinder along an axis of slide (26) of the piston;
  - a plurality of abutment rollers (23) for rolling of said pistons on the cam, each roller (23) being mounted on one said piston for rotation about a roller axis (25) perpendicular to the axis (26) of slide of said piston, said mounting being by means of a rotation bearing (24), said roller (23) having two substantially plane and parallel, transverse end faces (27), said roller being adapted to penetrate, at least partially, inside the cylinder (10) in which said piston is slidably mounted, the end of said piston being formed with two recesses having two substantially plane, parallel faces (28); and

- means (20), secured fast to the cylinder block, for holding the rollers in position in their respective bearings and preventing any escape of a roller from its bearing by sliding of the roller in the direction of its axis of rotation, said cylinder block (8) comprising at least one row of said cylinders having axes (26) all contained in substantially the same transverse plane perpendicular to the axis (5) of rotation of the cylinder block and disposed radially with respect to the cam (3);
- said means (20) comprising two assemblies independent of each other, each assembly comprising an element of substantially U-section fixed in position on said cylinder block (8) axially in the direction of the axis of slide (26) of said piston, said element incorporating a plane surface (41) disposed parallel and in immediate proximity to the transverse end faces (27) of said roller (23) and to the substantially plane faces of the recesses (28):
- said plane surface (41) constituting an axial stop for that transverse end face (27) of roller 23 which is closer to plane surface (41) thereby limiting the slide of the roller (23) in a direction parallel to its axis (25);
- the closer transverse end face (27) being determined by whether the length of roller (23) is, shorter than, equal to or greater than its bearing (24);
- the lateral edges of said U-section element forming said plane surface (41) extending within the corresponding cylinder and maintaining it radially in abatement, in the direction of the roller axis (25), with that part of the inner surface of said cylinder (10) located in the zone of clearance provided by one of the two recesses (28) of the piston (11):
- said means (20) thus being maintained in const radical orientation with respect to cylinder (10).

Compl. specn. 21 pages

Drg. 4 sheets

# ASSIGNMENT OR LICENCE OF RIGHT USECTION 63 OF THE DESIGN ACT, 1911 UNDER

Design No.	Class	Assignment matter
156307	3	Dr. P. Mozoomdar's Antibactian, an Indian Registered Partnership Firm whose partners are:

- (1) Smt. Roma Sen
- (2) Sri Tapash Ray
- (3) Smi, Arati Sen(4) Smt. Minati Das
- (5) Smt. Chinmayee Scn and (6) Smt. Chhanda Chakraborti.

# REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date-shown in the each entry is the date of registration of the design included in the entry.

- o. 161058. Arvind Industries, 13, Digvijay Plot, Jamnagar (Gujarat) (India), a regd. Partnership firm. "Pencil Sharpener". 6th June, 1989. Class 1. No. 161058.
- Class 1. No. 161148. Firoz Ukani & Ahmed Ali Ukani both Indians and Partners, trading as A.T. Mohsin & Co., an Indian Partnership firm of 71A, Netali Subhash Road, Calcutta-700 001, West Bengal, India. "Flour Mill Machine". 5th July. 1989.
- o. 161152. Shriram Refrigeration Industries, 19-Kasturba Gandhi Marg, New Delhi-110 001, India. "Compressor Body". 5th July, 1989. Class 1. No. India\_
- o. 161153. Shriram Refrigeration Industries Limited, an Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110 001. India. "Crank Shaft". 5th July, 1989. Class I. No.
- Class 1. No. 161154. Shriram Refrigeration Industries Limited. an Indian Company, 19-Kasturba Gandhi

- Marg. New Delhi 11 001, India. "Stator Lamination". 5th July, 1989.
- No. 161156. Shriram Refrigeration Industries Limited, an Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110 001. India. "Rotor Lamination". 5th July, 1989. Class 1. No.
- 161157. Shriram Refrigeration Industries Class 1. Limited, an Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110 001. India. "Locating cup for compressor". 5th July, 1989.
- No. 161158. Shriram Refrigeration Industries Limited, an Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110 001, India. "Valve Plate". Class 1. 5th July, 1989.
- Class 1. No. 161183. Dipika Metal & Allied Industries, a registered Partnership firm having its address at B-37/38, New Empire Industrial Estate, Kondivita Lane, J. B. Nagar Andheri East, Bombay-400 059, State of Maharashtra, India. "Pencil". 11th July, 1989.
- Class 1. No. 161317. India Sanitary Industries, 1630, Lat Darwaja, Bazar, Sirkiwajan, Delhi-6 India (an Indian Partnership firm). "Sprinkler". 18th August, 1989.
- No. 161541. Dr. Durgapada Baksi, DA-3, Sector 1, Salt Lake City, Calcutta-700064, West Bengal, India, an Indian National. "Elbow Pros-Class 1. theses". 18th October, 1989.
- Class 3, No. 161163. Rajesh Bajaj, Sole Proprietor M/s.

  Meridian Cosmetics, 42-46-B, Double Storey,
  Azad Market, Delhi-6, India, an Indian Proprietorship concern. "Box". 7th July, 1989. Storey,
- Class 3. No. 161181. Raj Kumar Bhatter, trading as Raj Lubricants, a sole proprietorship firm of P.O. Janugunj, P.S. Remuna, District Balasore, Pin-756 019, Orissa, India, Indian "Container", 11th July, 1989.
- Class. 3. No. 161184. Dipika Metal & Allied Industries, a registered Partnership firm having its address at B-37/38, New Empire Industrial Estate, Kondivita Lane, J. B. Nagar, Andheri East, Bombay-400 059, State of Maharashtra, India. "Pencil Sharpner". 11th July, 1989.
- Class 3. No. 161295. M/s. Metro Appliances Pvt. Limited B-12 & 13, Sector 4, Noida (U.P.) India, An Indian Company duly registered under the Companies Act, 1956 of the above address. "The Regulators for Ceiling Fans". 16th August. 1989.
- No. 161318. Bombay Ampoules Pvt. Ltd., of 16. Khotan Bhavan, 198. J. Tata Road, Church-gate, Bombay-400020, Maharashtra, India, an Indian Company. "Baby Nose Cleaner". 18th August, 1989. Class 3
- Class 3. No. 161432. Indian Cosmetics, 35J Raja Naba Kissan Street, Calcutta-700 005. West Bengal, India, an Indian Proprietorship Concern. "Con-tainer". 14th Lytember, 1989.
- Class 3. Nos. 161665 & 161666. Lugano Swiss Co. Pvt. Ltd., an Indian Company of Trimurti Building. 4. Lower Rowden Street, C-Block, 6th floor, Flat No. 67. Calcutta-700 020, West Bengal, India. "Ball Point Pen". 1st December, 1989.
- Class 4. No. 161319. Bombay Ampoules Pvt. Ltd., of 16, Khetan Bhavan, 198, J. Tata Road. Churchgate, Bombay-400 020, Maharashtra, India. an Indian Company. "Baby Nose Cleaner. 18th August, 1989.
- Class 4. Nos. 161368 & 161369. Asboka Enamel & Glass Works Pvt. Limited, of 34A, Metcalfe Street Calcutta-700 013, West Bengal, India, an Indian Company. "Bottle". 5th September, 1989.

R. A. ACHARYA

Controller General of Patents, Designs